

# AFRL-SA-WP-SR-2018-0005



# United States Air Force Hearing Conservation Program, Annual Report for Calendar Year 2016



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May 2018

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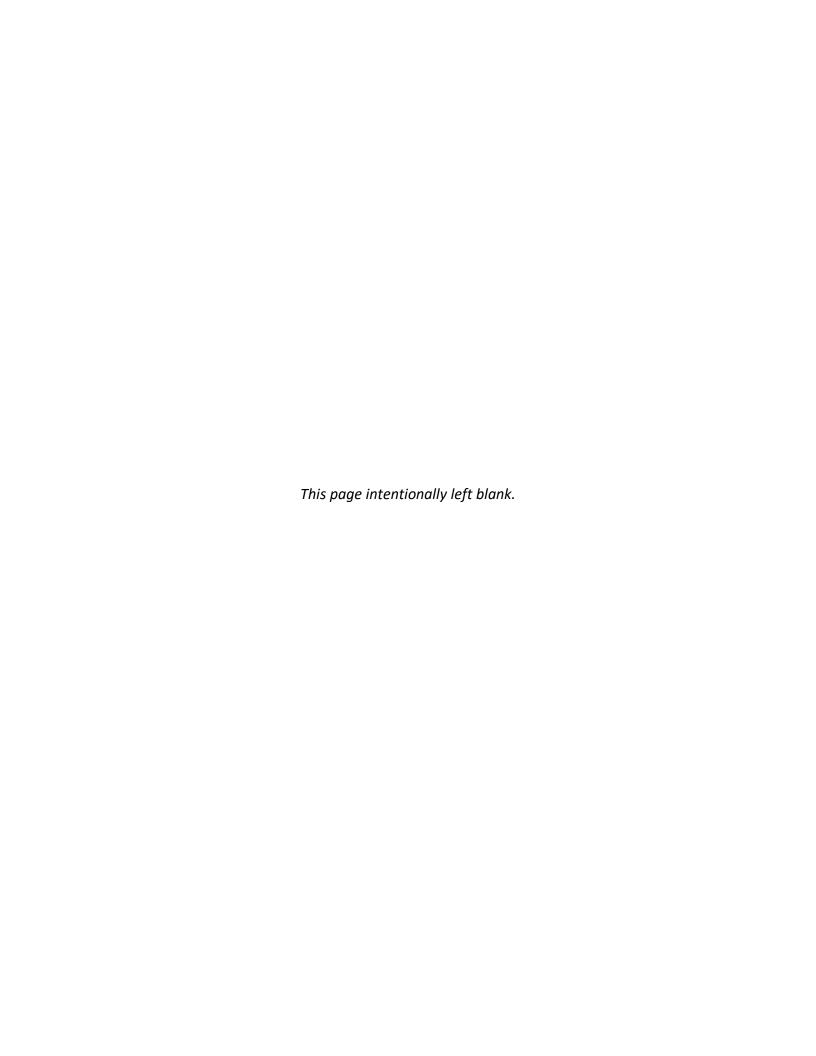
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## 1.0 BACKGROUND

he U.S. Air Force School of Aerospace Medicine (USAFSAM), Epidemiology Consult Service Division, Operations Support Branch (PHRO) prepares an annual status report on the Air Force Hearing Conservation Program (HCP) in accordance with Air Force Instruction (AFI) 48-127, Occupational Noise and Hearing Conservation Program, and Department of Defense (DoD) Instruction 6055.12, Hearing Conservation Program. This report covers calendar year 2016. Major command (MAJCOM) and installation level reports on hearing conservation metrics are available quarterly and by request from USAFSAM/PHRO.

A secondary purpose of this report is to summarize the status of the Defense Occupational and Environmental Health Readiness System-Hearing Conservation Data Repository (DOEHRS-HC DR) from the perspective of the Service functional, which is fulfilled by USAFSAM/PHRO. A third purpose is to identify current performance gaps within the HCP and provide recommendations for local unit and higher headquarters program management and evaluation of program effectiveness.

## 2.0 METHODS AND METRICS

Data for this report were gathered from the DOEHRS-HC DR Positive Threshold Shift Report by DoD and by MAJCOM, the Hearing Conservation Compliance Report by DoD, previous annual reports by USAFSAM/PHRO,<sup>1</sup> and by analysis of raw DOEHRS-HC data (specifically for reference discrepancy metrics). Access to DOEHRS-HC DR reports and DOEHRS-HC raw data is available to USAFSAM/PHRO as the functional representatives for the Air Force for this system. Per DoD 6055.12, two program metrics are required: significant threshold shift (STS) rates and audiogram completion rates. Additional metrics provided in this report include STS without follow-up tests and STS without reference discrepancies. The Appendix contains the data used to create Graphs 1-9.

#### 2.1 SIGNIFICANT THRESHOLD SHIFT

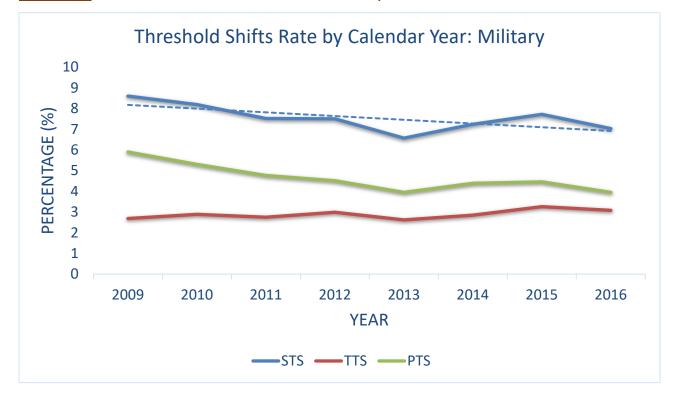
STS is an average decrease of 10 dB or more at 2000, 3000, and 4000 Hz on a periodic audiogram compared to the reference audiogram for that individual.<sup>1,2</sup> Follow-up testing is required per AFI 48-127 and DoD Instruction (DoDI) 6055.12 and determines if the STS is a temporary threshold shift (TTS) that resolves on follow-up testing or a permanent threshold shift (PTS) that is confirmed on follow-up testing or lack of follow-up testing. See Table 1 for business rules in accordance with AFI 48-127. Graphs 1-3 reflect STS, TTS, and PTS rates by military personnel, federally employed civilian personnel, and total (military and civilian) personnel, respectively. Graphs 4 and 5 reflect STS rates by MAJCOM for all personnel. Data were extracted from the Positive Significant Threshold Shift by DoD report, an aggregate report available on the DOEHRS-HC DR.

TABLE 1. Hearing Conservation Program Business Rules

PERIODIC EXAM	FIRST FOLLOW-UP EXAM†	SECOND FOLLOW-UP EXAM†	OUTCOME
PASS (NO SHIFT)	NOT REQUIRED	NOT REQUIRED	NO SHIFT
FAIL (POSTIVE THRESHOLD SHIFT)*	PASS	NOT REQUIRED	TTS
FAIL	FAIL	PASS	TTS
FAIL	NOT COMPLETED	NOT COMPLETED	PTS
FAIL	FAIL	NOT COMPLETED	PTS
FAIL	FAIL	FAIL	PTS

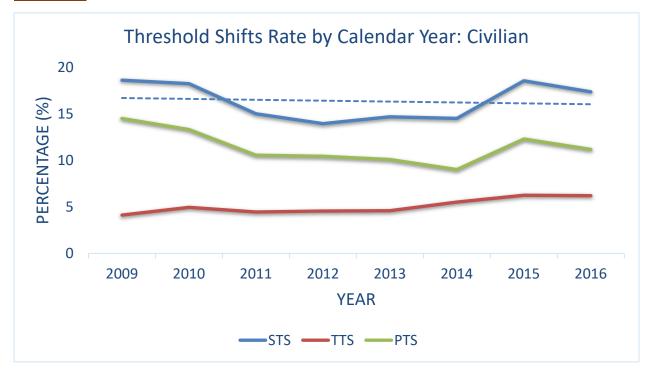
<sup>†</sup>Current follow-up period for active duty and civilian members is 30 days. Follow-up period for Air National Guard and Air Force Reserve is 60 days.

**GRAPH 1**. Positive Threshold Shift in Military

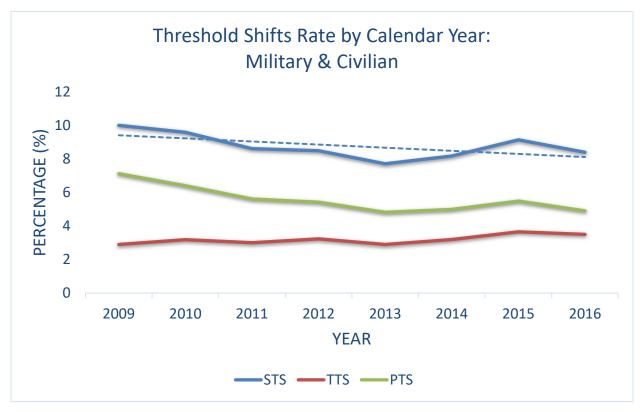


<sup>\*</sup>PTS is defined as an average increase of 10 db or more at 2000, 3000, and 4000 Hz on the periodic hearing test compared to the current reference audiogram.<sup>1,2</sup>

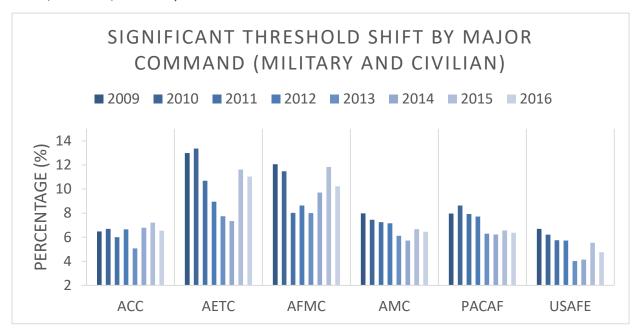
GRAPH 2. Positive Threshold Shift in Civilian



GRAPH 3. Positive Threshold Shift in Military and Civilian (Total)

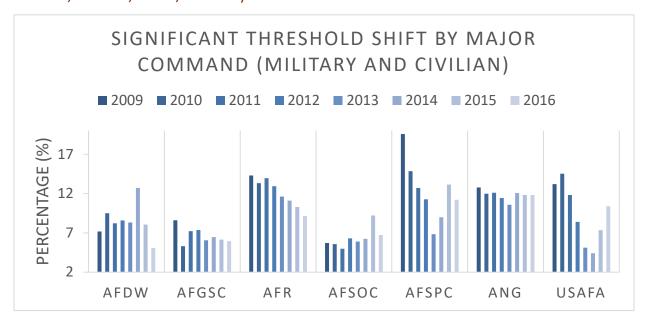


<u>GRAPH 4</u>. STS Rate Distributed by Major Command (ACC, AETC, AFMC, AMC, PACAF, USAFE)



ACC = Air Combat Command; AETC = Air Education & Training Command; AFMC = Air Force Materiel Command; AMC = Air Mobility Command; PACAF = Pacific Air Forces; USAFE = United States Air Forces in Europe

<u>GRAPH 5</u>. STS Rate Distributed by Major Command (AFDW, AFGSC, AFR, AFSOC, AFSPC, ANG, USAFA)

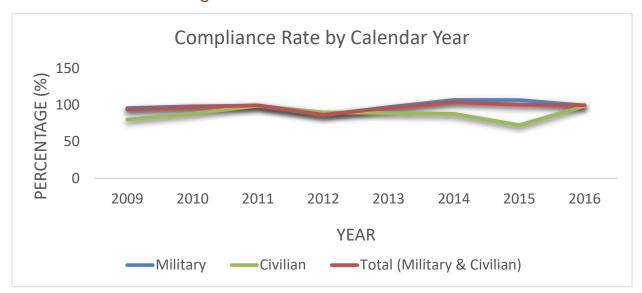


AFDW = Air Force District of Washington; AFGSC, Air Force Global Strike Command; AFR = Air Force Reserve; AFSOC = Air Force Special Operations Command; AFSPC = Air Force Space Command; ANG = Air National Guard; USAFA = United States Air Force Academy

#### 2.2 COMPLIANCE

Audiogram compliance is the number of people who received a periodic audiogram (numerator) divided by the number of members requiring an audiogram (HCP enrollees). The number of periodic audiograms is collected from the DOEHRS-HC DR Hearing Compliance report, and the HCP enrollees are collected in the Aeromedical Services Information Management System (ASIMS). While the numerator reflects the number of periodic tests over the year by unique individual in the DOEHRS-HC data, the denominator is a snapshot in time from the date of the ASIMS data report. Therefore, the number of periodic tests is more reflective of cumulative testing activity than the number of HCP enrollees for the timeframe; in other words, some of the audiograms counted in the numerator may not belong to personnel in the denominator and vice versa. This is a limiting factor to this metric, as the data are collected from disparate databases, likely overestimating the compliance rate. Graph 6 provides the compliance rate in percentage for total (military and civilian), military and civilian.

<u>GRAPH 6</u>. Hearing Conservation Program Compliance with Annual Audiometric Monitoring

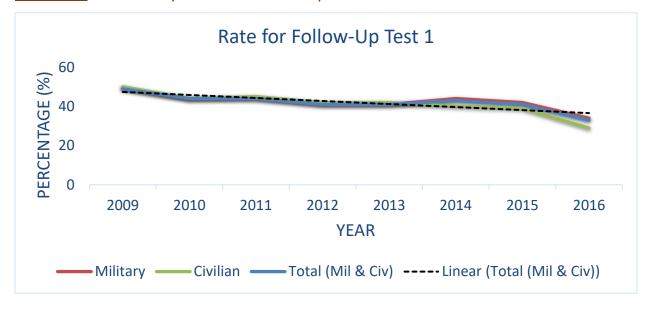


#### 2.3 AUDIOGRAM FOLLOW-UP

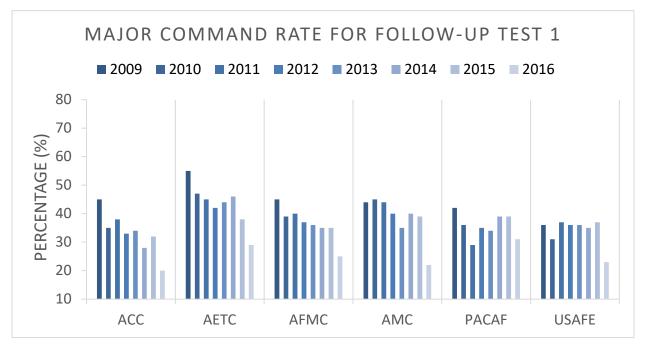
After an STS occurs, both DoDI 6055.12 and AFI 48-127 require the patient to follow up for a noise-free hearing test to provide confirmation of the STS. Follow-up tests determine whether the hearing change was temporary and determine the next patient care steps, including referral to a provider. Without follow-up tests, the final disposition of hearing status is unknown. Graph 7 provides percentage of follow-up tests for individuals with an STS on a periodic test who did not follow up within the required timeframe by calendar year. In accordance with AFI 48-127, a positive shift on a periodic test that does not receive follow-up testing within the required timeframe is considered a PTS. Graphs 8 & 9 provide percentage of follow-up test

("test 1") non-compliance for STS cases distributed by MAJCOM. Data were extracted from the Positive Significant Threshold Shift by DoD, an aggregate report available from the DOEHRS-HC DR.

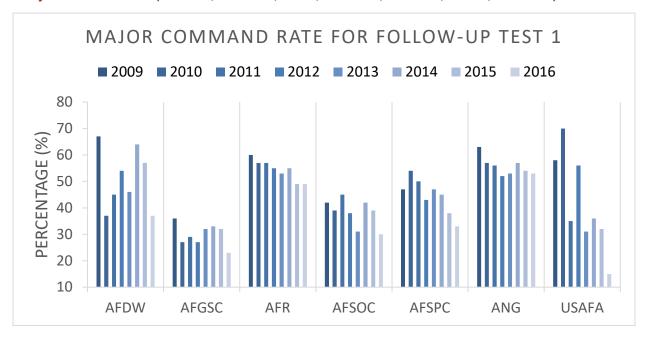
GRAPH 7. Follow-Up Test 1 Non-Compliance for STS Cases



<u>GRAPH 8</u>. Follow-Up Test 1 Non-Compliance for STS Cases Distributed by Major Command (ACC, AETC, AFMC, AMC, PACAF, USAFE)



<u>GRAPH 9</u>. Follow-Up Test 1 Non-Compliance for STS Cases Distributed by Major Command (AFDW, AFGSC, AFR, AFSOC, AFSPC, ANG, USAFA)



#### 2.4 SIGNIFICANT THRESHOLD SHIFT AND REFERENCE DISCREPANCY

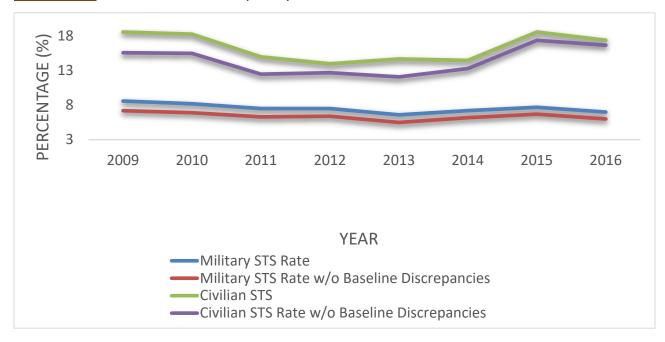
Periodically, a member will require their reference audiogram to be re-established for various reasons (Table 2, see column one, Reference Purpose Description). Per the business rules of the DOEHRS-HC DR system, certain references are prioritized over others and may result in different shift outcomes than anticipated by the examiner running the hearing test. If an incorrect reason for the reference audiogram is selected at the local test installation, it will cause a discrepancy between which reference is prioritized in the DR. These discrepancies between the local testing data and the DOEHRS-HC DR centralized data can cause test outcomes that affect STS and PTS rates. Table 2 summarizes the methods used in this report to find the discrepancies. This method does not take into account all possible reference discrepancies, therefore representing a conservative measure of reference discrepancies causing elevated STS and PTS rates. Graph 10 provides the variation of STS rates by calendar year with and without reference discrepancies. When reference discrepancies are accounted for, 1-1.4% of military STS cases are possibly due to incorrect reference selection either at the local level or at the DOEHRS-HC DR; 0.7-3% of civilian STS cases are affected.

TABLE 2. Reference Discrepancy Business Rules

Reference Purpose Description*	Previous Reference Status	Outcome
Re-Established After Follow-Up Program (3)	N/A	No reference discrepancy
Change in Service Component (4)	N/A	No reference discrepancy
Prior to Initial Duty in Hazardous Noise (1)	Only reference in the DR	No reference discrepancy
Prior to Initial Duty in Hazardous Noise (1)	Previous reference on file in the DR (any type 1-4)	Reference discrepancy
Following Exposure in Hazardous Noise Duties (2)	Only reference in the DR	No reference discrepancy
Following Exposure in Hazardous Noise Duties (2)	Previous reference file in the DR (any type 1-4)	Reference discrepancy

<sup>\*</sup>DOEHRS-HC DR prioritizes reason type 3 and 4 references (Re-Established After Follow-Up Program and Change in Service Component, respectively) over type 1 and 2 references (Prior to Initial Duty in Hazardous Noise and Following Exposure in Noise Duties, respectively). When technicians are unaware of the reference sequence, periodic exams can errantly refer to an earlier reference test in the patient's records, causing STS cases in error.

**GRAPH 10**. Reference Discrepancy Variation with STS Rate



## 3.0 DOEHRS-HC DR STATUS

The function of the DOEHRS-HC DR influences hearing conservation metrics. As such, this report details major functional issues that may impact hearing tests and aggregate reporting. Table 3 summarizes the major functional impacts during calendar year 2016.

TABLE 3. Significant DOEHRS-HC DR System Status Changes in 2016

System	Description	Status
Air Force-wide	Air Force Standard Desktop Configuration mandated	64-bit Exemption Memo
compliance extension	Windows 10 migration 64-bit cannot be used on	issued 21 Jan 2016.1
for DOEHRS-HC for	workstations with DOEHRS-HC v4.1.2.1 due to	
NIPRNet	incompatibility issues related to client application.	
Defense Manpower	DMDC feed of patient demographics for Air Force	Ticket entered December
Data Center (DMDC)	personnel non-functional.	2015 via the Defense
		Health Agency Global
		Service Center.
Oracle Discoverer to	USAFSAM functional staff accesses DOEHRS-HC DR data	DOEHRS-HC DR Business
Microsoft Business	via a reporting tool to generate queries and reports for	Objects access has been
Objects (Business	base level or higher headquarters surveillance and	restricted since
Connectivity Services	program management. Discoverer was transitioned to	approximately November
[BCS]) migration and	BCS for DOEHRS-HC DR in late 2016. However, access to	2016.
access	either Discoverer or BCS was limited to non-functional for	
	most of calendar year 2016.	
System Change Request	Updates, fixes, and changes to DOEHRS-HC DR user	No SCR, SIR, or MCR was
(SCR), System Incident	software and data repository are completed via SCR, SIR,	completed in the
Report (SIR),	and MCR processes with the DOEHRS-HC Project Office.	reporting period. The last
Maintenance Change		funded effort was
Request (MCR)		November 2015.

## 4.0 PROGRAM EVALUATION GAPS AND RECOMMENDATIONS

The HCP is specified in AFI 48-127 as "a command-driven program designed to reduce or eliminate hazardous noise exposure to workers, and protect workers from the harmful effects of hazardous noise, while enhancing combat and operational capabilities." Audiometric monitoring is meant to measure individual hearing status to confirm that personnel are protected from the hazardous noise. Indeed, hearing test results are the key metric for health of the program.

Although DOEHRS-HC DR does provide a relatively consistent method of reporting data on hearing conservation, it does not provide an accurate measurement by which to quantify program effectiveness. There are three major areas of concern that contribute to the ambiguity of the health of the HCP: 1) inadequate handling of the data in the DOEHRS-HC DR, the system of record for hearing conservation activities; 2) inadequate data entry and quality control at the user (examiner) level for DOEHRS-HC DR; and 3) inadequate epidemiology of exposed vs. unexposed populations.

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<sup>&</sup>lt;sup>1</sup> Office of the Assistant Secretary of Defense Health Affairs. Memorandum for Air Force Chief Information Officer. Air Force-wide Air Force standard desktop configuration compliance extension request for DOEHRS-HC. 2016 21 Jan. [Accessed 1 Apr 2018]. Available from <a href="https://doehrswww.apgea.army.mil/doehrsdr/secure/meta/Documents\_input.action">https://doehrswww.apgea.army.mil/doehrsdr/secure/meta/Documents\_input.action</a> to those with access.

First, there are a number of concerns with the DOEHRS-HC DR system that warrant discussion. Failures in record labeling include reference discrepancies found in testing sequences that do not account for all reference tests equally. This issue was described in detail in previous reports from this organization (U.S. Air Force Hearing Conservation Program, Baseline Audiogram Errors, www.dtic.mil/docs/citations/ADA591603):<sup>3</sup>

New business rules implemented in March 2009 for DOEHRS-HC DR incorporated major changes to the software that affected the priority of DD Form 2215 Reference Audiograms (baseline tests) used during the annual test. The DOEHRS-HC DR system will give priority to reason "3 – Re-established after Follow Up Program" baselines over any other baseline type. In cases where no previous reason "3 – Re-established" exists, the system will use the earliest dated DD Form 2215 baseline audiogram (reason "1– Prior to Initial Duty" or "2 – Following Exposure to Noise") or manually entered pre-DOEHRS baseline audiogram to determine the presence of an STS on an annual audiogram. Some annual audiograms that are "passing" (no shift) when compared with the most current available baseline in the local DOEHRS-HC system may be labeled as an STS once exported to the DOEHRS-DR system.

Legacy data from previous hearing conservation systems prior to 1997 also affect record labeling, as not all legacy hearing tests are imported and exported. Access to all previous hearing tests in the local database is critical to correct labeling of records. Program managers at all levels rely on STS, TTS, and PTS as the primary evaluation tools to determine HCP effectiveness. However, specific problems compromise the integrity of the data, making program evaluation difficult and ambiguous; reference discrepancies, as described above, artificially inflate STS, TTS, and PTS rates. Data presented in Graph 8 essentially show the maximum and minimum amounts of STS in the population by accounting for reference discrepancies, but the true STS rate more than likely lies somewhere between these two values. Therefore, it is impossible to determine true rates of change over time when performing trend analysis using DOEHRS-HC DR data directly.

Second, program management at the local unit level has a direct impact on the data trends as seen in the DOEHRS-HC DR and other USAFSAM/PHRO analyses. Lack of enforcement on follow-up tests after an STS is a significant problem within the program, as evidenced by Graphs 7-9. These unconfirmed STS cases inflate overall PTS rates, as an STS that is not investigated through the appropriate follow-up sequence will automatically convert into a PTS (Table 1). For example, Graph 1 shows all types of threshold shifts over time, but these numbers could be considered the maximum amount of shifts and not the true shift rate. As stated above, the true rates of threshold shifts are more than likely lower for all categories.

Additional program management issues include often ambiguous assignment of the installation Hearing Conservation Program Manager (HCPM), who serves as the professional supervisor of the program. This role is defined in AFI 48-127<sup>1</sup> as an audiologist, occupational medicine provider, or an experienced flight surgeon. The roles include, but are limited to, review of

patient processes and compliance, adequate protection from noise, adequacy of education to workers and supervisors, trend analysis, and oversight of fitness and risk evaluations. The role of installation HCPM is often delegated to public health technicians, which does not fulfill the intent of the AFI and is not consistent with practices in other Service components or the Occupational Safety and Health Administration (OSHA).

Audiometric monitoring is a critical component of the program, but other major program components are essential to success. Accurate data entry of patient demographics at the unit level is key to quality data from which to gauge accurate trend analysis. For example, the type and level of hazardous noise are vital to determining enrollment in the program, engineering controls for the workplace, and determining adequate hearing protection devices. Data on noise exposure and noise surveys are performed by the Bioenvironmental Flight and are stored in DOEHRS Industrial Hygiene (IH). Program managers primarily utilize DOEHRS-HC for program management and do not routinely have access to DOEHRS-IH. DOEHRS-HC DR contains limited data on noise exposure and hearing protection devices, and technicians often rely on self-report from the service member for this information, affecting quality of the information. A request for DOEHRS-IH and DOEHRS-HC data sharing has been initiated by the Services; however, data sharing systems still rely on the premise that accurate data are being entered by end users.

Lastly, a common misperception is that an STS is equivalent to hearing loss. However, an STS is simply a potential injury/illness marker and not a measure of type or degree of hearing loss. STS should be viewed as a potential auditory injury or illness that must be investigated to determine if actual hearing loss has occurred, as well as the extent of the potential hearing loss. As the goal of the program is to prevent noise-induced hearing loss, measures of effectiveness should include actual hearing loss metrics and not rely solely on an injury/illness marker. Currently, DOEHRS-HC DR reports of hearing loss in a given population are limited to the hearing Profile Summary (H1-H3) and OSHA Reportable Hearing Loss reports. The Profile Summary report does not evaluate the hearing health in a population, but is a snapshot of the military hearing profiles. A service member can have a moderate high frequency hearing loss with an H1 profile and a mild low frequency hearing loss with an H3 profile. Due to the variation within these categories, a clear picture of hearing health within the force is not attainable using hearing profile definitions. The OSHA Reportable Hearing Loss report only identifies two of the three requirements for a reportable hearing loss, thereby overestimating the correct number of OSHA reportable cases. This report is even further limited in determining hearing health of the force, as the hearing loss severity can range from mild to profound and still meet the definition of OSHA reportable.

Based on three major areas of concern for program evaluation, the following recommendations are provided:

 Submit specific changes to the DOEHRS-HC DR Service Functional Working Group that would improve reference handling and reporting in the system. USAFSAM/PHRO maintains responsibility for submission and approval of changes to DOEHRS-HC DR, in

- conjunction with the Air Force Medical Support Agency. These recommendations may be Air Force specific and may require Service-specific funding to address. Specific changes should include, but are limited to, elimination of reference priorities that cause false STS detections, restrictions in end user data entry (through the reliance of definitive data source feeds), and updates to reporting tools to include new program effectiveness metrics (for example, early warning shift tracking). Ultimately, the investigation of a new hearing conservation system is warranted to replace DOEHRS-HC.
- 2) Identify installation HCPMs for each unit to promote ongoing surveillance communications and consultations with USAFSAM/PHRO (per AFI 48-127, section 2.16.3,¹ the medical treatment facility commander appoints an HCPM, which can be accomplished via an appointment letter). Stand up education plans and training courses to train and support installation HCPMs appropriately. Create self-assessment checklists to capture installation and higher level roles from AFI 48-127 requirements, with these items specifically reviewed during Unit Effectiveness Inspections.
- 3) Improve data entry at the local unit. This can be accomplished with improved education and training annually, specifically focused on the DOEHRS-HC DR system, and also limitation of data entry options by end users.
- 4) Advance measures of program effectiveness utilizing descriptive epidemiology on the DOEHRS-HC DR data, alone and in conjunction with other electronic health records, to understand the scope of occupational noise-induced illness and injury in the Air Force population. Development of meaningful measures of effectiveness and measures of performance to more accurately evaluation program effectiveness of noise-induced injuries and illnesses is necessary.

## 5.0 REFERENCES

- U.S. Air Force. Occupational Noise and Hearing Conservation Program. Washington (DC): Department of the Air Force; 2016. Air Force Instruction 48-127. [Accessed 1 Apr 2018]. Available from <a href="http://static.e-publishing.af.mil/production/1/af-sg/publication/afi48-127/afi48-127.pdf">http://static.e-publishing.af.mil/production/1/af-sg/publication/afi48-127/afi48-127.pdf</a>.
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## APPENDIX: DATA FOR GRAPHS 1-10

Table for Graph 1. Positive Threshold Shift Rates in Military

Periodic Audiograms	Year	STS (%)	TTS (%)	PTS (%)
140,323	2009	8.6	2.69	5.9
144,788	2010	8.19	2.89	5.3
142,885	2011	7.52	2.75	4.77
138,625	2012	7.5	2.99	4.51
143,255	2013	6.57	2.62	3.95
155,060	2014	7.24	2.85	4.39
147,807	2015	7.72	3.26	4.46
146,463	2016	7.03	3.08	3.95

Table for Graph 2. Positive Threshold Shift in Civilian

Periodic Audiograms	Year	STS (%)	TTS (%)	PTS (%)
23,415	2009	18.62	4.12	14.5
23,469	2010	18.25	4.94	13.31
25,097	2011	15.01	4.45	10.55
25,195	2012	13.95	4.56	10.44
23,603	2013	14.68	4.59	10.09
23,024	2014	14.52	5.52	9.01
22,370	2015	18.55	6.25	12.3
22,612	2016	17.36	6.2	11.17

Table for Graph 3. Positive Threshold Shift in Military and Civilian

Periodic Audiograms	Year	STS (%)	TTS (%)	PTS (%)
164,378	2009	10.01	2.90	7.12
168,964	2010	9.59	3.19	6.40
168,767	2011	8.62	3.00	5.61
163,820	2012	8.49	3.23	5.42
166,858	2013	7.72	2.90	4.82
178,084	2014	8.18	3.20	4.99
170,177	2015	9.14	3.65	5.49
169,762	2016	8.40	3.50	4.90

Table for Graphs 4 & 5. STS Rate Distributed by Major Command

2009: Military and Civilian	STS on Periodic Audiogram (%)	TTS (%)	PTS (%)
ACC	6.48	2.30	4.18
AETC	13.07	3.39	9.68
AFDW	7.17	1.42	5.75
AFGSC	8.61	3.12	5.49
AFMC	12.07	3.47	8.61
AFR	14.30	3.29	11.00
AFSOC	5.71	2.16	3.55
AFSPC	19.57	6.08	13.49
AMC	7.98	2.54	5.43
ANG	12.78	2.70	10.08
PACAF	7.97	3.06	4.91
USAFA	13.20	3.60	9.60
USAFE	6.69	2.85	3.84
Grand Totals:	9.67	2.90	6.78
2009: Military	STS on Periodic Audiogram (%)	TTS (%)	PTS (%)
ACC	5.60	2.19	3.41
AETC	9.62	2.71	6.92
AFDW	6.57	1.30	5.18
AFGSC	7.03	2.86	4.18
AFMC	8.60	3.06	5.54
AFR	14.04	3.33	10.72
AFSOC	5.39	2.13	3.26
AFSPC	16.92	6.03	10.89
AMC	7.39	2.48	4.91
ANG	12.64	2.68	9.97
PACAF	6.79	2.81	3.99
USAFA	10.66	3.46	7.20
USAFE	6.62	2.89	3.74
Grand Totals:	8.23	2.67	5.56
2009: Civilian	STS on Periodic Audiogram (%)	TTS (%)	PTS (%)
ACC	22.36	4.31	18.05
AETC	24.21	5.58	18.63
AFDW	19.05	1.90	17.14
AFGSC	27.04	6.23	20.82
AFMC	15.00	3.81	11.19
AFR	17.67	2.49	15.18
AFSOC	24.69	2.47	22.22
AFSPC	27.42	6.22	21.21
AMC	21.32	3.80	17.52
ANG	17.16	3.43	13.73
PACAF	25.80	6.63	19.17
USAFA	18.95	3.92	15.03
USAFE	17.95	2.56	15.38
Grand Totals:	17.91	4.18	13.74

2010: Military and Civilian	STS on Periodic Audiogram (%)	TTS (%)	PTS (%)
ACC	6.72	2.92	3.80
AETC	13.37	4.29	9.08
AFDW	9.49	3.74	5.75
AFGSC	5.30	2.50	2.80
AFMC	11.48	4.00	7.48
AFR	13.33	3.23	10.09
AFSOC	5.56	2.12	3.44
AFSPC	14.85	3.81	11.04
AMC	7.45	2.49	4.96
ANG	11.99	2.96	9.03
PACAF	8.63	3.62	5.01
USAFA	14.52	2.42	12.10
USAFE	6.22	3.00	3.23
Grand Totals:	9.21	3.19	6.03
2010: Military	STS on Periodic Audiogram (%)	TTS (%)	PTS (%)
ACC	5.78	2.74	3.04
AETC	10.73	3.80	6.93
AFDW	9.15	3.66	5.49
AFGSC	4.44	2.33	2.11
AFMC	7.85	3.23	4.63
AFR	12.98	3.18	9.81
AFSOC	5.15	2.09	3.07
AFSPC	12.04	3.61	8.44
AMC	6.79	2.33	4.46
ANG	11.73	2.91	8.82
PACAF	7.49	3.37	4.12
USAFA	13.15	2.39	10.76
USAFE	6.16	3.05	3.12
Grand Totals:	7.85	2.88	4.97
2010: Civilian	STS on Periodic Audiogram (%)	TTS (%)	PTS (%)
ACC	23.62	6.26	17.36
AETC	21.72	5.78	15.93
AFDW	18.64	5.93	12.71
AFGSC	18.83	5.13	13.69
AFMC	14.66	4.67	9.99
AFR	18.32	3.92	14.41
AFSOC	23.70	4.44	19.26
AFSPC	22.81	4.20	18.61
AMC	22.54	6.05	16.49
ANG	20.26	4.96	15.30
PACAF	23.78	5.59	18.19
USAFA	17.36	2.48	14.88
USAFE	20.44	3.65	16.79
Grand Totals:	17.33	4.97	12.36

2011: Military and Civilian	STS on Periodic Audiogram (%)	TTS (%)	PTS (%)
ACC	6.01	2.46	3.55
AETC	10.70	3.63	7.07
AFDW	8.22	2.74	5.48
AFGSC	7.21	3.08	4.13
AFMC	8.02	2.93	5.09
AFR	13.95	3.71	10.24
AFSOC	4.97	2.00	2.97
AFSPC	12.71	3.77	8.95
AMC	7.25	2.43	4.82
ANG	12.11	3.20	8.91
PACAF	7.93	4.04	3.89
USAFA	11.81	4.40	7.42
USAFE	5.75	2.79	2.96
Grand Totals:	8.24	2.95	5.29
2011: Military	STS on Periodic Audiogram (%)	TTS (%)	PTS (%)
ACC	5.16	2.30	2.86
AETC	7.90	2.89	5.01
AFDW	7.73	2.60	5.12
AFGSC	5.73	2.70	3.02
AFMC	4.85	1.90	2.95
AFR	13.72	3.76	9.96
AFSOC	4.75	2.02	2.73
AFSPC	9.91	3.01	6.90
AMC	6.65	2.33	4.32
ANG	11.99	3.17	8.82
PACAF	6.89	3.82	3.07
USAFA	8.33	1.59	6.75
USAFE	5.63	2.76	2.88
Grand Totals:	7.18	2.68	4.51
2011: Civilian	STS on Periodic Audiogram (%)	TTS (%)	PTS (%)
ACC	20.95	5.19	15.76
AETC	20.52	6.18	14.34
AFDW	22.50	6.67	15.83
AFGSC	24.81	7.71	17.11
AFMC	10.68	3.79	6.89
AFR	17.27	2.96	14.31
AFSOC	15.73	2.25	13.48
AFSPC	22.69	6.46	16.24
AMC	21.39	4.81	16.59
ANG	16.76	4.52	12.23
PACAF	21.41	6.62	14.79
USAFA	19.64	10.71	8.93
USAFE	20.86	8.63	12.23
Grand Totals:	14.13	4.45	9.68

2012: Military and Civilian	STS on Periodic Exam (%)	TTS (%)	PTS (%)
ACC	6.66	2.88	3.78
AETC	8.96	3.28	5.68
AFDW	8.59	2.50	6.09
AFGSC	7.37	3.14	4.24
AFMC	8.63	3.43	5.20
AFR	12.94	3.74	9.19
AFSOC	6.30	2.93	3.37
AFSPC	11.26	4.72	6.54
AMC	7.16	2.79	4.37
ANG	11.44	3.58	7.86
PACAF	7.72	3.55	4.17
USAFA	8.40	2.22	6.17
USAFE	5.73	2.67	3.06
Grand Totals:	8.24	3.18	5.06
2012: Military	STS on Periodic Audiogram (%)	TTS (%)	PTS (%)
ACC	5.68	2.71	2.97
AETC	6.21	2.73	3.48
AFDW	8.19	2.43	5.76
AFGSC	6.20	2.88	3.32
AFMC	5.78	2.43	3.35
AFR	12.69	3.76	8.94
AFSOC	5.85	2.82	3.03
AFSPC	9.73	4.31	5.43
AMC	6.53	2.64	3.90
ANG	11.37	3.61	7.76
PACAF	6.63	3.35	3.28
USAFA	5.84	1.82	4.01
USAFE	5.51	2.65	2.85
Grand Totals:	7.19	2.91	4.27
2012: Civilian	STS on Periodic Audiogram (%)	TTS (%)	PTS (%)
ACC	22.33	5.62	16.70
AETC	18.20	5.12	13.08
AFDW	18.33	4.17	14.17
AFGSC	22.84	6.25	16.59
AFMC	10.87	4.20	6.67
AFR	17.84	3.05	14.79
AFSOC	30.49	8.54	21.95
AFSPC	17.92	6.11	11.81
AMC	22.02	5.92	16.09
ANG	15.23	2.73	12.50
PACAF	22.69	6.41	16.28
USAFA	13.85	3.08	10.77
USAFE	16.58	3.74	12.83
Grand Totals:	13.95	4.57	9.38

2013: Military and Civilian	STS on Periodic Audiogram (%)	TTS (%)	PTS (%)
ACC	5.07	2.30	2.77
AETC	7.74	2.81	4.93
AFDW	8.32	2.69	5.63
AFGSC	6.06	2.93	3.13
AFMC	8.01	3.06	4.94
AFR	11.62	3.72	7.90
AFSOC	5.89	3.08	2.81
AFSPC	6.83	2.36	4.47
AMC	6.13	2.78	3.34
ANG	10.58	3.35	7.22
PACAF	6.29	2.88	3.41
USAFA	5.12	2.17	2.95
USAFE	4.02	1.81	2.22
Grand Totals:	7.27	2.85	4.41
2013: Military	STS on Periodic Audiogram (%)	TTS (%)	PTS (%)
ACC	4.34	2.08	2.26
AETC	5.52	2.24	3.28
AFDW	7.79	2.52	5.27
AFGSC	5.23	2.68	2.55
AFMC	4.90	2.00	2.91
AFR	11.12	3.64	7.49
AFSOC	5.52	2.91	2.61
AFSPC	5.94	2.27	3.67
AMC	5.45	2.55	2.89
ANG	10.57	3.36	7.21
PACAF	5.25	2.73	2.52
USAFA	4.48	2.24	2.24
USAFE	3.92	1.83	2.09
Grand Totals:	6.34	2.59	3.75
2013: Civilian	STS on Periodic Audiogram (%)	TTS (%)	PTS (%)
ACC	17.89	5.94	11.95
AETC	15.99	4.86	11.13
AFDW	23.14	8.26	14.88
AFGSC	21.62	7.57	14.05
AFMC	10.57	3.95	6.62
AFR	21.80	5.60	16.20
AFSOC	24.79	11.57	13.22
AFSPC	11.14	2.62	8.52
AMC	21.12	7.68	13.44
ANG	15.83	3.90	11.93
PACAF	21.46	4.59	16.87
USAFA	6.62	1.99	4.64
USAFE	10.38	2.19	8.20
Grand Totals:	13.09	4.47	8.61

2014: Military and Civilian	STS on Periodic Audiogram (%)	TTS (%)	PTS (%)
ACC	6.79	3.42	3.37
AETC	7.34	2.88	4.45
AFDW	12.71	2.99	9.73
AFGSC	6.46	3.21	3.26
AFMC	9.71	4.19	5.52
AFR	11.11	3.55	7.56
AFSOC	6.24	2.70	3.53
AFSPC	8.99	3.15	5.84
AMC	5.73	2.38	3.35
ANG	12.07	3.51	8.56
PACAF	6.23	2.72	3.50
USAFA	4.40	2.20	2.20
USAFE	4.14	1.81	2.33
Grand Totals:	8.15	3.19	4.96
2014: Military	STS on Periodic Audiogram (%)	TTS (%)	PTS (%)
ACC	5.88	3.15	2.73
AETC	5.24	2.45	2.78
AFDW	12.66	2.93	9.73
AFGSC	5.48	2.83	2.65
AFMC	6.94	3.01	3.93
AFR	10.76	3.53	7.23
AFSOC	5.91	2.65	3.26
AFSPC	6.65	2.30	4.35
AMC	5.16	2.24	2.93
ANG	12.08	3.52	8.55
PACAF	5.35	2.48	2.87
USAFA	2.46	1.23	1.23
USAFE	4.06	1.81	2.25
Grand Totals:	7.23	2.85	4.38
2014: Civilian	STS on Periodic Audiogram (%)	TTS (%)	PTS (%)
ACC	24.72	8.92	15.80
AETC	14.95	4.49	10.45
AFDW	15.84	5.94	9.90
AFGSC	23.89	9.60	14.29
AFMC	12.19	5.22	6.97
AFR	19.54	3.95	15.59
AFSOC	22.22	5.19	17.04
AFSPC	9.59	7.21	12.39
AMC	19.74	5.85	13.89
ANG	15.24	3.96	11.28
PACAF	20.76	6.24	14.52
USAFA	8.00	4.00	4.00
USAFE	9.64	2.54	7.11
Grand Totals:	14.47	5.50	8.97

2015: Military and Civilian	STS on Periodic Audiogram (%)	TTS (%)	PTS (%)
ACC	7.21	3.62	3.59
AETC	11.63	4.61	7.03
AFDW	8.05	2.44	5.61
AFGSC	6.14	2.86	3.28
AFMC	11.84	4.52	7.31
AFR	10.30	3.59	6.71
AFSOC	9.22	4.03	5.18
AFSPC	13.15	5.08	8.08
AMC	6.67	3.02	3.65
ANG	11.81	3.74	8.07
PACAF	6.56	3.22	3.34
USAFA	7.34	2.70	4.63
USAFE	5.54	2.65	2.88
Grand Totals:	8.98	3.64	5.33
2015: Military	STS on Periodic Audiogram (%)	TTS (%)	PTS (%)
ACC	6.37	3.41	2.96
AETC	7.61	3.37	4.24
AFDW	7.71	2.34	5.37
AFGSC	5.15	2.54	2.61
AFMC	7.11	3.11	4.00
AFR	9.97	3.53	6.44
AFSOC	8.86	3.98	4.88
AFSPC	11.17	4.63	6.54
AMC	5.94	2.85	3.09
ANG	11.75	3.74	8.01
PACAF	5.73	3.03	2.69
USAFA	4.52	1.81	2.71
USAFE	5.38	2.62	2.76
Grand Totals:	7.57	3.24	4.33
2015: Civilian	STS on Periodic Audiogram (%)	TTS (%)	PTS (%)
ACC	24.61	8.08	16.53
AETC	25.90	9.07	16.83
AFDW	23.61	6.94	16.67
AFGSC	20.63	7.79	12.84
AFMC	15.88	5.71	10.17
AFR	17.77	4.49	13.29
AFSOC	26.61	6.45	20.16
AFSPC	21.73	7.01	14.72
AMC	23.61	6.67	16.94
ANG	15.81	4.19	11.61
PACAF	23.40	6.21	17.20
USAFA	12.37	4.30	8.06
USAFE	12.80	3.32	9.48
Grand Totals:	18.29	6.25	12.04

2016: Military and Civilian	STS on Periodic Audiogram (%)	TTS (%)	PTS (%)
ACC	6.55	3.49	3.06
AETC	11.04	4.44	6.60
AFDW	5.09	2.32	2.77
AFGSC	5.96	2.85	3.11
AFMC	10.23	4.06	6.17
AFR	9.15	2.96	6.19
AFSOC	6.73	2.97	3.76
AFSPC	11.20	4.19	7.01
AMC	6.46	3.43	3.02
ANG	11.82	3.57	8.25
PACAF	6.38	3.07	3.31
USAFA	10.40	6.81	3.59
USAFE	4.76	2.41	2.35
Grand Totals:	8.23	3.46	4.76
2016: Military	STS on Periodic Audiogram (%)	TTS (%)	PTS (%)
ACC	5.84	3.23	2.61
AETC	6.66	3.14	3.52
AFDW	4.73	2.19	2.54
AFGSC	4.99	2.49	2.49
AFMC	4.97	2.36	2.61
AFR	8.83	2.89	5.94
AFSOC	6.45	2.97	3.49
AFSPC	9.90	3.73	6.17
AMC	5.84	3.32	2.51
ANG	11.76	3.57	8.20
PACAF	5.58	2.86	2.72
USAFA	8.31	6.23	2.08
USAFE	4.62	2.36	2.26
Grand Totals:	6.84	3.03	3.80
2016: Civilian	STS on Periodic Audiogram (%)	TTS (%)	PTS (%)
ACC	21.74	8.83	12.91
AETC	23.74	8.17	15.57
AFDW	18.31	7.04	11.27
AFGSC	20.62	8.29	12.33
AFMC	15.36	5.71	9.66
AFR	16.23	4.39	11.84
AFSOC	19.35	3.23	16.13
AFSPC	15.69	5.62	10.07
AMC	20.24	5.77	14.47
ANG	14.57	3.59	10.99
PACAF	23.28	7.09	16.19
USAFA	14.06	7.81	6.25
USAFE	12.50	5.36	7.14
Grand Totals:	17.16	6.19	10.98

Table for Graph 6. Hearing Conservation Program Compliance with Annual Audiometric Monitoring

Year	Military Noise- Exposed	Military Personnel Tested	Compliance (%)	Civilian Noise- Exposed	Civilian Personnel Tested	Compliance (%)	Total Noise- Exposed	Total Personnel Tested	Compliance (%)
2009	166861	159628	95.7	32172	25748	80.0	199033	186275	93.6
2010	166736	163834	98.2	29395	25952	88.3	196131	190732	97.3
2011	160242	158703	99.0	26980	26643	98.8	187222	186348	99.6
2012	183249	157877	86.1	28749	24863	90.0	211998	183740	86.7
2013	170369	165467	97.1	27704	24675	89.1	198073	190142	96.0
2014	159180	169931	106.8	27291	23999	90.0	186471	194847	104.0
2015	150727	160844	106.7	33130	24018	72.5	183857	184862	100.1
2016	150714	151629	99.3	25122	24731	98.4	175836	176360	99.7

#### Table for Graph 7. Follow-Up Test 1 Compliance for STS Cases

Year	Military w/STS on Periodic	Military No F/U 1 Test	Military % No F/U 1 Test	Civilian w/STS on Periodic	Civilian No F/U 1 Test	Civilian % No F/U 1 Test	Total w/STS on Periodic	Total No F/U 1 Test	Total % No F/U 1 Test
2009	12235	6051	49.5	4257	2118	49.6	16528	8170	49.4
2010	12391	5508	44.6	4210	1858	44.1	16657	7365	44.2
2011	10924	4791	43.9	3586	1608	44.8	14541	6402	44.0
2012	10421	4232	40.6	3551	1503	42.3	14006	5729	40.9
2013	9387	3875	41.3	3166	1322	41.8	12583	5191	41.3
2014	11219	4976	44.4	3332	1352	40.6	14586	6329	43.4
2015	11414	4776	41.9	4127	1594	38.6	15599	6373	40.9
2016	10291	3538	34.4	3926	1143	29.1	14262	4686	32.9

## Table for Graphs 8 & 9. Follow-Up Test 1 Compliance for STS Cases Distributed by Major Command

2009: Military and Civilian	STS on Periodic	No F/U 1 Test	% No F/U 1 Test
ACC	1,848	831	44.97
AETC	1,415	782	55.27
AFDW	157	105	66.88
AFGSC	560	204	36.43
AFMC	3,316	1,493	45.02
AFR	1,558	928	59.56
AFSOC	278	117	42.09
AFSPC	425	199	46.82
AMC	2,059	910	44.20
ANG	1,824	1,158	63.49
PACAF	1,145	483	42.18
USAFA	66	38	57.58
USAFE	658	238	36.17
Grand Totals:	15,309	7,486	48.90
2009: Military	STS on Periodic	No F/U 1 Test	% No F/U 1 Test
ACC	1,515	641	42.31
AETC	789	449	56.91
AFDW	137	92	67.15
AFGSC	421	133	31.59
AFMC	1,079	483	44.76
AFR	1,423	837	58.82
AFSOC	258	104	40.31
AFSPC	275	131	47.64
AMC	1,828	793	43.38
ANG	1,747	1,109	63.48
PACAF	903	368	40.75
	l		
USAFA	37	21	56.76
USAFA USAFE	37 631	21 223	56.76 35.34

2009: Civilian	STS on Periodic	No F/U 1 Test	% No F/U 1 Test
ACC	332	189	56.93
AETC	625	334	53.44
AFDW	20	13	65.00
AFGSC	139	71	51.08
AFMC	2,236	1,014	45.35
AFR	135	94	69.63
AFSOC	20	13	65.00
AFSPC	150	69	46.00
AMC	230	119	51.74
ANG	75	48	64.00
PACAF	218	107	49.08
USAFA	29	17	58.62
USAFE	21	11	52.38
Grand Totals:	4,230	2,099	49.62
2010: Military and Civilian	STS on Periodic	No F/U 1 Test	% No F/U 1 Test
ACC	2,014	707	35.10
AETC	1,437	675	46.97
AFDW	312	114	36.54
AFGSC	361	99	27.42
AFMC	3,259	1,285	39.43
AFR	1,480	840	56.76
AFSOC	341	133	39.00
AFSPC	312	169	54.17
AMC	2,147	964	44.90
ANG	1,847	1,056	57.17
PACAF	1,250	456	36.48
USAFA	54	38	70.37
USAFE	615	192	31.22
Grand Totals:	15,429	6,728	43.61
2010: Military	STS on Periodic	No F/U 1 Test	% No F/U 1 Test
•			
ACC	1,633	536	32.82
ACC AETC	1,633 869	536 397	32.82 45.68
ACC AETC AFDW	1,633 869 290	536 397 102	32.82 45.68 35.17
ACC AETC AFDW AFGSC	1,633 869 290 284	536 397 102 74	32.82 45.68 35.17 26.06
ACC AETC AFDW AFGSC AFMC	1,633 869 290 284 1,039	536 397 102 74 415	32.82 45.68 35.17 26.06 39.94
ACC AETC AFDW AFGSC AFMC AFR	1,633 869 290 284 1,039 1,349	536 397 102 74 415 763	32.82 45.68 35.17 26.06 39.94 56.56
ACC AETC AFDW AFGSC AFMC AFR AFSOC	1,633 869 290 284 1,039 1,349 309	536 397 102 74 415 763 119	32.82 45.68 35.17 26.06 39.94 56.56 38.51
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC	1,633 869 290 284 1,039 1,349 309 187	536 397 102 74 415 763 119 99	32.82 45.68 35.17 26.06 39.94 56.56 38.51 52.94
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC AMC	1,633 869 290 284 1,039 1,349 309 187	536 397 102 74 415 763 119 99 832	32.82 45.68 35.17 26.06 39.94 56.56 38.51 52.94 44.37
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC AMC ANG	1,633 869 290 284 1,039 1,349 309 187 1,875 1,750	536 397 102 74 415 763 119 99 832 997	32.82 45.68 35.17 26.06 39.94 56.56 38.51 52.94 44.37 56.97
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC AMC ANG PACAF	1,633 869 290 284 1,039 1,349 309 187 1,875 1,750 1,004	536 397 102 74 415 763 119 99 832 997 356	32.82 45.68 35.17 26.06 39.94 56.56 38.51 52.94 44.37 56.97 35.46
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC AMC ANG PACAF USAFA	1,633 869 290 284 1,039 1,349 309 187 1,875 1,750 1,004 33	536 397 102 74 415 763 119 99 832 997 356 23	32.82 45.68 35.17 26.06 39.94 56.56 38.51 52.94 44.37 56.97 35.46 69.70
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC AMC ANG PACAF USAFA	1,633 869 290 284 1,039 1,349 309 187 1,875 1,750 1,004 33 583	536 397 102 74 415 763 119 99 832 997 356 23 175	32.82 45.68 35.17 26.06 39.94 56.56 38.51 52.94 44.37 56.97 35.46 69.70 30.02
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC AMC ANG PACAF USAFA USAFE Grand Totals:	1,633 869 290 284 1,039 1,349 309 187 1,875 1,750 1,004 33 583	536 397 102 74 415 763 119 99 832 997 356 23 175 4,888	32.82 45.68 35.17 26.06 39.94 56.56 38.51 52.94 44.37 56.97 35.46 69.70 30.02 43.62
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC AMC ANG PACAF USAFA USAFA USAFE Grand Totals: 2010: Civilian	1,633 869 290 284 1,039 1,349 309 187 1,875 1,750 1,004 33 583 11,205 STS on Periodic	536 397 102 74 415 763 119 99 832 997 356 23 175 4,888 No F/U 1 Test	32.82 45.68 35.17 26.06 39.94 56.56 38.51 52.94 44.37 56.97 35.46 69.70 30.02 43.62 % No F/U 1 Test
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC AMC ANG PACAF USAFA USAFE Grand Totals: 2010: Civilian ACC	1,633 869 290 284 1,039 1,349 309 187 1,875 1,750 1,004 33 583 11,205 STS on Periodic 381	536 397 102 74 415 763 119 99 832 997 356 23 175 4,888 No F/U 1 Test	32.82 45.68 35.17 26.06 39.94 56.56 38.51 52.94 44.37 56.97 35.46 69.70 30.02 43.62 % No F/U 1 Test 45.41
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC AMC ANG PACAF USAFA USAFE Grand Totals: 2010: Civilian ACC AETC	1,633 869 290 284 1,039 1,349 309 187 1,875 1,750 1,004 33 583 11,205 STS on Periodic 381 567	536 397 102 74 415 763 119 99 832 997 356 23 175 4,888 No F/U 1 Test 173 278	32.82 45.68 35.17 26.06 39.94 56.56 38.51 52.94 44.37 56.97 35.46 69.70 30.02 43.62 % No F/U 1 Test 45.41 49.03
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC AMC ANG PACAF USAFA USAFE Grand Totals: 2010: Civilian ACC AFDW	1,633 869 290 284 1,039 1,349 309 187 1,875 1,750 1,004 33 583 11,205 STS on Periodic 381 567 22	536 397 102 74 415 763 119 99 832 997 356 23 175 4,888 No F/U 1 Test 173 278	32.82 45.68 35.17 26.06 39.94 56.56 38.51 52.94 44.37 56.97 35.46 69.70 30.02 43.62 % No F/U 1 Test 45.41 49.03 54.55
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC AMC ANG PACAF USAFA USAFE Grand Totals: 2010: Civilian ACC AFDW AFGSC	1,633 869 290 284 1,039 1,349 309 187 1,875 1,750 1,004 33 583 11,205 STS on Periodic 381 567 22 77	536 397 102 74 415 763 119 99 832 997 356 23 175 4,888 No F/U 1 Test 173 278 12 25	32.82 45.68 35.17 26.06 39.94 56.56 38.51 52.94 44.37 56.97 35.46 69.70 30.02 43.62 % No F/U 1 Test 45.41 49.03 54.55 32.47
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC AMC ANG PACAF USAFA USAFE Grand Totals: 2010: Civilian ACC AFDW AFGSC AFMC AFMC AFDW AFGSC AFMC	1,633 869 290 284 1,039 1,349 309 187 1,875 1,750 1,004 33 583 11,205 STS on Periodic 381 567 22 77 2,220	536 397 102 74 415 763 119 99 832 997 356 23 175 4,888 No F/U 1 Test 173 278 12 25 869	32.82 45.68 35.17 26.06 39.94 56.56 38.51 52.94 44.37 56.97 35.46 69.70 30.02 43.62 % No F/U 1 Test 45.41 49.03 54.55 32.47 39.14
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC AMC ANG PACAF USAFA USAFE Grand Totals: 2010: Civilian ACC AFTC AFDW AFGSC AFMC AFR	1,633 869 290 284 1,039 1,349 309 187 1,875 1,750 1,004 33 583 11,205 STS on Periodic 381 567 22 77 2,220	536 397 102 74 415 763 119 99 832 997 356 23 175 4,888 No F/U 1 Test 173 278 12 25 869 77	32.82 45.68 35.17 26.06 39.94 56.56 38.51 52.94 44.37 56.97 35.46 69.70 30.02 43.62 % No F/U 1 Test 45.41 49.03 54.55 32.47 39.14 58.78
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC AMC ANG PACAF USAFA USAFE Grand Totals: 2010: Civilian ACC AETC AFDW AFGSC AFMC AFR AFSOC	1,633 869 290 284 1,039 1,349 309 187 1,875 1,750 1,004 33 583 11,205 STS on Periodic 381 567 22 77 2,220 131 32	536 397 102 74 415 763 119 99 832 997 356 23 175 4,888 No F/U 1 Test 173 278 12 25 869 77 13	32.82 45.68 35.17 26.06 39.94 56.56 38.51 52.94 44.37 56.97 35.46 69.70 30.02 43.62 % No F/U 1 Test 45.41 49.03 54.55 32.47 39.14 58.78 40.62
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC AMC ANG PACAF USAFA USAFE Grand Totals: 2010: Civilian ACC AFTC AFDW AFGSC AFMC AFR AFSOC AFR AFSOC AFR AFSOC AFSPC	1,633 869 290 284 1,039 1,349 309 187 1,875 1,750 1,004 33 583 11,205 STS on Periodic 381 567 22 77 2,220 131 32 125	536 397 102 74 415 763 119 99 832 997 356 23 175 4,888 No F/U 1 Test 173 278 12 25 869 77 13 71	32.82 45.68 35.17 26.06 39.94 56.56 38.51 52.94 44.37 56.97 35.46 69.70 30.02 43.62 % No F/U 1 Test 45.41 49.03 54.55 32.47 39.14 58.78 40.62 56.80
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC AMC ANG PACAF USAFA USAFE Grand Totals: 2010: Civilian ACC AETC AFDW AFGSC AFMC AFR AFSOC	1,633 869 290 284 1,039 1,349 309 187 1,875 1,750 1,004 33 583 11,205 STS on Periodic 381 567 22 77 2,220 131	536 397 102 74 415 763 119 99 832 997 356 23 175 4,888 No F/U 1 Test 173 278 12 25 869 77 13	32.82 45.68 35.17 26.06 39.94 56.56 38.51 52.94 44.37 56.97 35.46 69.70 30.02 43.62 % No F/U 1 Test 45.41 49.03 54.55 32.47 39.14 58.78 40.62 56.80 48.90
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC AMC ANG PACAF USAFA USAFE Grand Totals: 2010: Civilian ACC AETC AFDW AFGSC AFR AFSOC AFR AFSOC AFR AFSOC AFR AFSOC AFR AFSOC AMC	1,633 869 290 284 1,039 1,349 309 187 1,875 1,750 1,004 33 583 11,205 STS on Periodic 381 567 22 77 2,220 131 32 125 272 94	536 397 102 74 415 763 119 99 832 997 356 23 175 4,888 No F/U 1 Test 173 278 12 25 869 77 13 71 133 58	32.82 45.68 35.17 26.06 39.94 56.56 38.51 52.94 44.37 56.97 35.46 69.70 30.02 43.62 % No F/U 1 Test 45.41 49.03 54.55 32.47 39.14 58.78 40.62 56.80 48.90 61.70
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC AMC ANG PACAF USAFA USAFE Grand Totals: 2010: Civilian ACC AETC AFDW AFGSC AFR AFSOC AFR AFSOC AFR AFSOC AFR AFSOC AFR AFSOC AFSPC AMC ANG	1,633 869 290 284 1,039 1,349 309 187 1,875 1,750 1,004 33 583 11,205 STS on Periodic 381 567 22 77 2,220 131 32 125 272	536 397 102 74 415 763 119 99 832 997 356 23 175 4,888 No F/U 1 Test 173 278 12 25 869 77 13 71 133	32.82 45.68 35.17 26.06 39.94 56.56 38.51 52.94 44.37 56.97 35.46 69.70 30.02 43.62 % No F/U 1 Test 45.41 49.03 54.55 32.47 39.14 58.78 40.62 56.80 48.90
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC AMC ANG PACAF USAFA USAFE Grand Totals: 2010: Civilian ACC AETC AFDW AFGSC AFR AFSOC AFR AFSOC AFR AFSOC AFR AFSOC AFR AFSOC AFSPC AMC ANG PACAF	1,633 869 290 284 1,039 1,349 309 187 1,875 1,750 1,004 33 583 11,205 STS on Periodic 381 567 22 77 2,220 131 32 125 272 94 200	536 397 102 74 415 763 119 99 832 997 356 23 175 4,888 No F/U 1 Test 173 278 12 25 869 77 13 71 133 58	32.82 45.68 35.17 26.06 39.94 56.56 38.51 52.94 44.37 56.97 35.46 69.70 30.02 43.62 % No F/U 1 Test 45.41 49.03 54.55 32.47 39.14 58.78 40.62 56.80 48.90 61.70 48.00
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC AMC ANG PACAF USAFA USAFE Grand Totals: 2010: Civilian ACC AETC AFDW AFGSC AFMC AFR AFSOC AFR AFSOC AFR AFSOC AFR AFSOC AFR AFSOC AFSPC AMC ANG PACAF USAFA	1,633 869 290 284 1,039 1,349 309 187 1,875 1,750 1,004 33 583 11,205 STS on Periodic 381 567 22 77 2,220 131 32 125 272 94 200 21	536 397 102 74 415 763 119 99 832 997 356 23 175 4,888 No F/U 1 Test 173 278 12 25 869 77 13 71 133 58 96	32.82 45.68 35.17 26.06 39.94 56.56 38.51 52.94 44.37 56.97 35.46 69.70 30.02 43.62 % No F/U 1 Test 45.41 49.03 54.55 32.47 39.14 58.78 40.62 56.80 48.90 61.70 48.00 71.43

2011: Military and Civilian	STS on Periodic	No F/U 1 Test	% No F/U 1 Test
ACC	1,809	680	37.59
AETC	1,123	505	44.97
AFDW	294	132	44.90
AFGSC	494	144	29.15
AFMC	2,422	968	39.97
AFR	1,332	758	56.91
AFSOC	219	98	44.75
AFSPC	314	156	49.68
AMC	1,907	844	44.26
ANG	1,777	993	55.88
PACAF	1,029	302	29.35
USAFA	43	15	34.88
USAFE	568	208	36.62
Grand Totals:	13,331	5,803	43.53
2011: Military	STS on Periodic	No F/U 1 Test	% No F/U 1 Test
ACC	1,459	495	33.93
AETC	638	283	44.36
AFDW	267	121	45.32
AFGSC	362	89	24.59
AFMC	668	266	39.82
AFR	1,227	692	56.40
AFSOC	205	87	42.44
AFSPC	191	100	52.36
AMC	1,680	719	42.80
ANG	1,713	955	55.75
PACAF	815	213	26.13
USAFA	21	10	47.62
USAFE	533 <b>9,779</b>	189 <b>4,219</b>	35.46 <b>43.14</b>
Grand Totals:	4 / /4		43.14
2011: Civilian	STS on Periodic	No F/U 1 Test	% No F/U 1 Test
2011: Civilian ACC	STS on Periodic 347	<b>No F/U 1 Test</b> 186	% No F/U 1 Test 53.60
2011: Civilian ACC AETC	STS on Periodic 347 485	No F/U 1 Test 186 224	% No F/U 1 Test 53.60 46.19
ACC AETC AFDW	347 485 27	186 224 11	% No F/U 1 Test 53.60 46.19 40.74
ACC AETC AFDW AFGSC	347 485 27 132	186 224 11 54	% No F/U 1 Test 53.60 46.19 40.74 40.91
ACC AETC AFDW	347 485 27	186 224 11	% No F/U 1 Test 53.60 46.19 40.74 40.91 40.02
ACC AETC AFDW AFGSC AFMC	347 485 27 132 1,754	186 224 11 54 702	% No F/U 1 Test 53.60 46.19 40.74 40.91 40.02 65.71
ACC AETC AFDW AFGSC AFMC AFR	347 485 27 132 1,754	186 224 11 54 702	% No F/U 1 Test 53.60 46.19 40.74 40.91 40.02
ACC AETC AFDW AFGSC AFMC AFR AFSOC	347 485 27 132 1,754 105	No F/U 1 Test  186  224  11  54  702  69  10	% No F/U 1 Test 53.60 46.19 40.74 40.91 40.02 65.71 71.43
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC	347 485 27 132 1,754 105 14 123	186 224 11 54 702 69 10	% No F/U 1 Test 53.60 46.19 40.74 40.91 40.02 65.71 71.43 45.53
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC AMC	347 485 27 132 1,754 105 14 123 227	186 224 11 54 702 69 10 56	% No F/U 1 Test 53.60 46.19 40.74 40.91 40.02 65.71 71.43 45.53 55.07
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC AMC ANG	347 485 27 132 1,754 105 14 123 227 63	No F/U 1 Test  186  224  11  54  702  69  10  56  125  37	% No F/U 1 Test 53.60 46.19 40.74 40.91 40.02 65.71 71.43 45.53 55.07 58.73
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC AMC ANG PACAF	347 485 27 132 1,754 105 14 123 227 63 194	No F/U 1 Test  186 224 11 54 702 69 10 56 125 37 84	% No F/U 1 Test 53.60 46.19 40.74 40.91 40.02 65.71 71.43 45.53 55.07 58.73 43.30
2011: Civilian  ACC  AETC  AFDW  AFGSC  AFMC  AFR  AFSOC  AFSPC  AMC  ANG  PACAF  USAFA	347 485 27 132 1,754 105 14 123 227 63 194	No F/U 1 Test  186  224  11  54  702  69  10  56  125  37  84  6	% No F/U 1 Test 53.60 46.19 40.74 40.91 40.02 65.71 71.43 45.53 55.07 58.73 43.30 27.27
2011: Civilian  ACC  AETC  AFDW  AFGSC  AFMC  AFR  AFSOC  AFSPC  AMC  ANG  PACAF  USAFA  USAFE	\$75 on Periodic  347  485  27  132  1,754  105  14  123  227  63  194  22  29	No F/U 1 Test  186  224  11  54  702  69  10  56  125  37  84  6  17	\$\text{No F/U 1 Test}\$ 53.60 46.19 40.74 40.91 40.02 65.71 71.43 45.53 55.07 58.73 43.30 27.27 58.62
2011: Civilian  ACC  AETC  AFDW  AFGSC  AFMC  AFR  AFSOC  AFSPC  AMC  ANG  PACAF  USAFA  USAFE  Grand Totals:  2012: Military and Civilian  ACC	\$75 on Periodic  347  485  27  132  1,754  105  14  123  227  63  194  22  29  3,522  \$75 on Periodic  1,922	No F/U 1 Test  186  224  11  54  702  69  10  56  125  37  84  6  17  1,581  No F/U 1 Test	% No F/U 1 Test 53.60 46.19 40.74 40.91 40.02 65.71 71.43 45.53 55.07 58.73 43.30 27.27 58.62 44.89 % No F/U 1 Test 33.35
2011: Civilian  ACC  AETC  AFDW  AFGSC  AFMC  AFR  AFSOC  AFSPC  AMC  ANG  PACAF  USAFA  USAFE  Grand Totals:  2012: Military and Civilian  ACC  AETC	\$75 on Periodic  347  485  27  132  1,754  105  14  123  227  63  194  22  29  3,522  \$75 on Periodic  1,922  993	No F/U 1 Test  186  224  11  54  702  69  10  56  125  37  84  6  17  1,581  No F/U 1 Test  641  421	% No F/U 1 Test 53.60 46.19 40.74 40.91 40.02 65.71 71.43 45.53 55.07 58.73 43.30 27.27 58.62 44.89 % No F/U 1 Test 33.35 42.40
2011: Civilian  ACC  AETC  AFDW  AFGSC  AFMC  AFR  AFSOC  AFSPC  AMC  ANG  PACAF  USAFA  USAFE  Grand Totals:  2012: Military and Civilian  ACC  AFDW	\$75 on Periodic  347  485  27  132  1,754  105  14  123  227  63  194  22  29  3,522  \$75 on Periodic  1,922  993  261	No F/U 1 Test  186  224  11  54  702  69  10  56  125  37  84  6  17  1,581  No F/U 1 Test  641  421	% No F/U 1 Test 53.60 46.19 40.74 40.91 40.02 65.71 71.43 45.53 55.07 58.73 43.30 27.27 58.62 44.89 % No F/U 1 Test 33.35 42.40 54.02
2011: Civilian  ACC  AETC  AFDW  AFGSC  AFMC  AFR  AFSOC  AFSPC  AMC  ANG  PACAF  USAFA  USAFE  Grand Totals:  2012: Military and Civilian  ACC  AFDW  AFGSC	\$75 on Periodic  347  485  27  132  1,754  105  14  123  227  63  194  22  29  3,522  \$75 on Periodic  1,922  993  261  435	No F/U 1 Test  186  224  11  54  702  69  10  56  125  37  84  6  17  1,581  No F/U 1 Test  641  421  141  118	% No F/U 1 Test 53.60 46.19 40.74 40.91 40.02 65.71 71.43 45.53 55.07 58.73 43.30 27.27 58.62 44.89 % No F/U 1 Test 33.35 42.40 54.02 27.13
2011: Civilian  ACC  AETC  AFDW  AFGSC  AFMC  AFR  AFSOC  AFSPC  AMC  ANG  PACAF  USAFA  USAFE  Grand Totals:  2012: Military and Civilian  ACC  AFDW  AFGSC  AFMC  AFDW  AFGSC  AFMC	\$75 on Periodic  347  485  27  132  1,754  105  14  123  227  63  194  22  29  3,522  \$75 on Periodic  1,922  993  261  435  2,595	No F/U 1 Test  186  224  11  54  702  69  10  56  125  37  84  6  17  1,581  No F/U 1 Test  641  421  141  118  965	% No F/U 1 Test 53.60 46.19 40.74 40.91 40.02 65.71 71.43 45.53 55.07 58.73 43.30 27.27 58.62 44.89 % No F/U 1 Test 33.35 42.40 54.02 27.13 37.19
2011: Civilian  ACC  AETC  AFDW  AFGSC  AFMC  AFR  AFSOC  AFSPC  AMC  ANG  PACAF  USAFA  USAFE  Grand Totals:  2012: Military and Civilian  ACC  AFDW  AFGSC  AFMC  AFMC  AFMC  AFMC  AFMC  AFTC  AFDW  AFGSC  AFMC  AFR	\$75 on Periodic  347  485  27  132  1,754  105  14  123  227  63  194  22  29  3,522  \$75 on Periodic  1,922  993  261  435  2,595  1,144	No F/U 1 Test  186  224  11  54  702  69  10  56  125  37  84  6  17  1,581  No F/U 1 Test  641  421  141  118  965  629	% No F/U 1 Test 53.60 46.19 40.74 40.91 40.02 65.71 71.43 45.53 55.07 58.73 43.30 27.27 58.62 44.89 % No F/U 1 Test 33.35 42.40 54.02 27.13 37.19 54.98
2011: Civilian  ACC  AETC  AFDW  AFGSC  AFMC  AFR  AFSOC  AFSPC  AMC  ANG  PACAF  USAFA  USAFE  Grand Totals:  2012: Military and Civilian  ACC  AETC  AFDW  AFGSC  AFMC  AFR  AFSOC	\$75 on Periodic  347  485  27  132  1,754  105  14  123  227  63  194  22  29  3,522  \$75 on Periodic  1,922  993  261  435  2,595  1,144  282	No F/U 1 Test  186  224  11  54  702  69  10  56  125  37  84  6  17  1,581  No F/U 1 Test  641  421  141  118  965  629  106	% No F/U 1 Test 53.60 46.19 40.74 40.91 40.02 65.71 71.43 45.53 55.07 58.73 43.30 27.27 58.62 44.89 % No F/U 1 Test 33.35 42.40 54.02 27.13 37.19 54.98 37.59
2011: Civilian  ACC  AETC  AFDW  AFGSC  AFMC  AFR  AFSOC  AFSPC  AMC  ANG  PACAF  USAFA  USAFE  Grand Totals:  2012: Military and Civilian  ACC  AETC  AFDW  AFGSC  AFMC  AFR  AFSOC  AFR  AFSOC  AFR  AFSOC  AFR  AFSOC  AFSPC	\$75 on Periodic  347  485  27  132  1,754  105  14  123  227  63  194  22  29  3,522  \$75 on Periodic  1,922  993  261  435  2,595  1,144  282  296	No F/U 1 Test  186  224  11  54  702  69  10  56  125  37  84  6  17  1,581  No F/U 1 Test  641  421  141  118  965  629  106  128	% No F/U 1 Test 53.60 46.19 40.74 40.91 40.02 65.71 71.43 45.53 55.07 58.73 43.30 27.27 58.62 44.89 % No F/U 1 Test 33.35 42.40 54.02 27.13 37.19 54.98 37.59 43.24
2011: Civilian  ACC  AETC  AFDW  AFGSC  AFMC  AFR  AFSOC  AFSPC  AMC  ANG  PACAF  USAFA  USAFE  Grand Totals:  2012: Military and Civilian  ACC  AETC  AFDW  AFGSC  AFMC  AFR  AFSOC  AFR  AFSOC  AFR  AFSOC  AFSPC  AMC	\$75 on Periodic  347  485  27  132  1,754  105  14  123  227  63  194  22  29  3,522  \$75 on Periodic  1,922  993  261  435  2,595  1,144  282  296  1,989	No F/U 1 Test  186  224  11  54  702  69  10  56  125  37  84  6  17  1,581  No F/U 1 Test  641  421  141  118  965  629  106  128  795	% No F/U 1 Test 53.60 46.19 40.74 40.91 40.02 65.71 71.43 45.53 55.07 58.73 43.30 27.27 58.62 44.89 % No F/U 1 Test 33.35 42.40 54.02 27.13 37.19 54.98 37.59 43.24 39.97
2011: Civilian  ACC  AETC  AFDW  AFGSC  AFMC  AFR  AFSOC  AFSPC  AMC  ANG  PACAF  USAFA  USAFE  Grand Totals:  2012: Military and Civilian  ACC  AETC  AFDW  AFGSC  AFMC  AFR  AFSOC  AFR  AFSOC  AFR  AFSOC  AFR  AFSOC  AFSPC  AMC	\$75 on Periodic  347  485  27  132  1,754  105  14  123  227  63  194  22  29  3,522  \$75 on Periodic  1,922  993  261  435  2,595  1,144  282  296  1,989  1,804	No F/U 1 Test  186  224  11  54  702  69  10  56  125  37  84  6  17  1,581  No F/U 1 Test  641  421  118  965  629  106  128  795  933	% No F/U 1 Test 53.60 46.19 40.74 40.91 40.02 65.71 71.43 45.53 55.07 58.73 43.30 27.27 58.62 44.89 % No F/U 1 Test 33.35 42.40 54.02 27.13 37.19 54.98 37.59 43.24 39.97 51.72
2011: Civilian  ACC  AETC  AFDW  AFGSC  AFMC  AFR  AFSOC  AFSPC  AMC  ANG  PACAF  USAFA  USAFE  Grand Totals:  2012: Military and Civilian  ACC  AETC  AFDW  AFGSC  AFMC  AFR  AFSOC  AFR  AFSOC  AFR  AFSOC  AFR  AFSOC  AFR  AFSOC  AFSPC  AMC  ANG  PACAF	\$75 on Periodic  347  485  27  132  1,754  105  14  123  227  63  194  22  29  3,522  \$75 on Periodic  1,922  993  261  435  2,595  1,144  282  296  1,989  1,804  915	No F/U 1 Test  186  224  11  54  702  69  10  56  125  37  84  6  17  1,581  No F/U 1 Test  641  421  141  118  965  629  106  128  795  933  316	% No F/U 1 Test 53.60 46.19 40.74 40.91 40.02 65.71 71.43 45.53 55.07 58.73 43.30 27.27 58.62 44.89 % No F/U 1 Test 33.35 42.40 54.02 27.13 37.19 54.98 37.59 43.24 39.97 51.72 34.54
2011: Civilian  ACC  AETC  AFDW  AFGSC  AFMC  AFR  AFSOC  AFSPC  AMC  ANG  PACAF  USAFA  USAFE  Grand Totals:  2012: Military and Civilian  ACC  AETC  AFDW  AFGSC  AFR  AFSOC  AFR  AFSOC  AFR  AFSOC  AFR  AFSOC  AFR  AFSOC  AFR  AFSOC  AFSPC  AMC  ANG  PACAF  USAFA  USAFA  USAFA  USAFA  USAFA  USAFA  USAFA  ACC  AETC  AFDW  AFGSC  AFMC  AFR  AFSOC  AFSPC  AMC  ANG  PACAF  USAFA	\$75 on Periodic  347  485  27  132  1,754  105  14  123  227  63  194  22  29  3,522  \$75 on Periodic  1,922  993  261  435  2,595  1,144  282  296  1,989  1,804  915  34	No F/U 1 Test  186  224  11  54  702  69  10  56  125  37  84  6  17  1,581  No F/U 1 Test  641  421  141  118  965  629  106  128  795  933  316  19	% No F/U 1 Test 53.60 46.19 40.74 40.91 40.02 65.71 71.43 45.53 55.07 58.73 43.30 27.27 58.62 44.89 % No F/U 1 Test 33.35 42.40 54.02 27.13 37.19 54.98 37.59 43.24 39.97 51.72 34.54 55.88
2011: Civilian  ACC  AETC  AFDW  AFGSC  AFMC  AFR  AFSOC  AFSPC  AMC  ANG  PACAF  USAFA  USAFE  Grand Totals:  2012: Military and Civilian  ACC  AETC  AFDW  AFGSC  AFMC  AFR  AFSOC  AFR  AFSOC  AFR  AFSOC  AFR  AFSOC  AFR  AFSOC  AFSPC  AMC  ANG  PACAF	\$75 on Periodic  347  485  27  132  1,754  105  14  123  227  63  194  22  29  3,522  \$75 on Periodic  1,922  993  261  435  2,595  1,144  282  296  1,989  1,804  915	No F/U 1 Test  186  224  11  54  702  69  10  56  125  37  84  6  17  1,581  No F/U 1 Test  641  421  141  118  965  629  106  128  795  933  316	% No F/U 1 Test 53.60 46.19 40.74 40.91 40.02 65.71 71.43 45.53 55.07 58.73 43.30 27.27 58.62 44.89 % No F/U 1 Test 33.35 42.40 54.02 27.13 37.19 54.98 37.59 43.24 39.97 51.72 34.54

2012: Military	STS on Periodic	No F/U 1 Test	% No F/U 1 Test
ACC	1,529	458	29.95
AETC	526	205	38.97
AFDW	239	128	53.56
AFGSC	340	86	25.29
AFMC	764	297	38.87
AFR	1,068	579	54.21
AFSOC	257	91	35.41
AFSPC	208	85	40.87
AMC	1,740	678	38.97
ANG	1,734	898	51.79
PACAF	720	231	32.08
USAFA	16	8	50.00
USAFE	525	182	34.67
Grand Totals:	9,666	3,926	40.62
2012: Civilian	STS on Periodic	No F/U 1 Test	% No F/U 1 Test
ACC	393	183	46.56
AETC	466	218	46.78
AFDW	22	13	59.09
AFGSC	95	33	34.74
AFMC	1,831	670	36.59
AFR	76	51	67.11
AFSOC	25	15	60.00
AFSPC	88	44	50.00
AMC	249	121	48.59
ANG	67	36	53.73
PACAF	177	81	45.76
USAFA	18	11	61.11
USAFE	31	18	58.06
Grand Totals:	3,538	1,494	42.23
2013: Military and Civilian	STS on Periodic	No F/U 1 Test	% No F/U 1 Test
ACC	1,444	497	34.42
ACC AETC	1,444 874	497 381	34.42 43.59
ACC AETC AFDW	1,444 874 291	497 381 135	34.42 43.59 46.39
ACC AETC AFDW AFGSC	1,444 874 291 441	497 381 135 139	34.42 43.59 46.39 31.52
ACC AETC AFDW AFGSC AFMC	1,444 874 291 441 2,318	497 381 135 139 837	34.42 43.59 46.39 31.52 36.11
ACC AETC AFDW AFGSC AFMC AFR	1,444 874 291 441 2,318 1,260	497 381 135 139 837 665	34.42 43.59 46.39 31.52 36.11 52.78
ACC AETC AFDW AFGSC AFMC AFR AFSOC	1,444 874 291 441 2,318 1,260	497 381 135 139 837 665 116	34.42 43.59 46.39 31.52 36.11 52.78 30.61
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC	1,444 874 291 441 2,318 1,260 379 182	497 381 135 139 837 665 116	34.42 43.59 46.39 31.52 36.11 52.78
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC AMC	1,444 874 291 441 2,318 1,260 379 182 1,688	497 381 135 139 837 665 116 85 597	34.42 43.59 46.39 31.52 36.11 52.78 30.61 46.70 35.37
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC	1,444 874 291 441 2,318 1,260 379 182	497 381 135 139 837 665 116	34.42 43.59 46.39 31.52 36.11 52.78 30.61 46.70
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC AMC ANG	1,444 874 291 441 2,318 1,260 379 182 1,688 2,469	497 381 135 139 837 665 116 85 597 1,308	34.42 43.59 46.39 31.52 36.11 52.78 30.61 46.70 35.37 52.98
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC AMC ANG PACAF	1,444 874 291 441 2,318 1,260 379 182 1,688 2,469 847	497 381 135 139 837 665 116 85 597 1,308 286	34.42 43.59 46.39 31.52 36.11 52.78 30.61 46.70 35.37 52.98 33.77
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC AMC ANG PACAF USAFA	1,444 874 291 441 2,318 1,260 379 182 1,688 2,469 847 26	497 381 135 139 837 665 116 85 597 1,308 286 8	34.42 43.59 46.39 31.52 36.11 52.78 30.61 46.70 35.37 52.98 33.77 30.77
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC AMC ANG PACAF USAFA USAFE	1,444 874 291 441 2,318 1,260 379 182 1,688 2,469 847 26 345	497 381 135 139 837 665 116 85 597 1,308 286 8 124	34.42 43.59 46.39 31.52 36.11 52.78 30.61 46.70 35.37 52.98 33.77 30.77 35.94
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC AMC ANG PACAF USAFA USAFE Grand Totals:	1,444 874 291 441 2,318 1,260 379 182 1,688 2,469 847 26 345	497 381 135 139 837 665 116 85 597 1,308 286 8 124 5,178	34.42 43.59 46.39 31.52 36.11 52.78 30.61 46.70 35.37 52.98 33.77 30.77 35.94 41.21
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC AMC ANG PACAF USAFA USAFE Grand Totals: 2013: Military ACC AETC	1,444 874 291 441 2,318 1,260 379 182 1,688 2,469 847 26 345 12,564 STS on Periodic	497 381 135 139 837 665 116 85 597 1,308 286 8 124 5,178 No F/U 1 Test	34.42 43.59 46.39 31.52 36.11 52.78 30.61 46.70 35.37 52.98 33.77 30.77 35.94 41.21 % No F/U 1 Test
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC AMC ANG PACAF USAFA USAFE Grand Totals: 2013: Military ACC	1,444 874 291 441 2,318 1,260 379 182 1,688 2,469 847 26 345 12,564 STS on Periodic 1,163	497 381 135 139 837 665 116 85 597 1,308 286 8 124 5,178 No F/U 1 Test	34.42 43.59 46.39 31.52 36.11 52.78 30.61 46.70 35.37 52.98 33.77 30.77 35.94 41.21 % No F/U 1 Test 32.42
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC AMC ANG PACAF USAFA USAFE Grand Totals: 2013: Military ACC AETC	1,444 874 291 441 2,318 1,260 379 182 1,688 2,469 847 26 345 12,564 STS on Periodic 1,163 485	497 381 135 139 837 665 116 85 597 1,308 286 8 124 5,178 No F/U 1 Test	34.42 43.59 46.39 31.52 36.11 52.78 30.61 46.70 35.37 52.98 33.77 30.77 35.94 41.21 % No F/U 1 Test 32.42 40.41
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC AMC ANG PACAF USAFA USAFE Grand Totals: 2013: Military ACC AFDW	1,444 874 291 441 2,318 1,260 379 182 1,688 2,469 847 26 345 12,564 STS on Periodic 1,163 485 263	497 381 135 139 837 665 116 85 597 1,308 286 8 124 5,178 No F/U 1 Test 377 196 123	34.42 43.59 46.39 31.52 36.11 52.78 30.61 46.70 35.37 52.98 33.77 30.77 35.94 41.21 % No F/U 1 Test 32.42 40.41 46.77
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC AMC ANG PACAF USAFA USAFE Grand Totals: 2013: Military ACC AFDW AFGSC	1,444 874 291 441 2,318 1,260 379 182 1,688 2,469 847 26 345 12,564 STS on Periodic 1,163 485 263 361	497 381 135 139 837 665 116 85 597 1,308 286 8 124 5,178 No F/U 1 Test 377 196 123	34.42 43.59 46.39 31.52 36.11 52.78 30.61 46.70 35.37 52.98 33.77 30.77 35.94 41.21 % No F/U 1 Test 32.42 40.41 46.77 27.70
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC AMC ANG PACAF USAFA USAFE Grand Totals: 2013: Military ACC AFDW AFGSC AFMC AFDW AFGSC AFMC	1,444 874 291 441 2,318 1,260 379 182 1,688 2,469 847 26 345 12,564 STS on Periodic 1,163 485 263 361 641	497 381 135 139 837 665 116 85 597 1,308 286 8 124 5,178 No F/U 1 Test 377 196 123 100 222	34.42 43.59 46.39 31.52 36.11 52.78 30.61 46.70 35.37 52.98 33.77 30.77 35.94 41.21 % No F/U 1 Test 32.42 40.41 46.77 27.70 34.63
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC AMC ANG PACAF USAFA USAFE Grand Totals: 2013: Military ACC AFDW AFGSC AFMC AFR	1,444 874 291 441 2,318 1,260 379 182 1,688 2,469 847 26 345 12,564 STS on Periodic 1,163 485 263 361 641 1,150	497 381 135 139 837 665 116 85 597 1,308 286 8 124 5,178 No F/U 1 Test 377 196 123 100 222 607	34.42 43.59 46.39 31.52 36.11 52.78 30.61 46.70 35.37 52.98 33.77 30.77 35.94 41.21 % No F/U 1 Test 32.42 40.41 46.77 27.70 34.63 52.78
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC AMC ANG PACAF USAFA USAFE Grand Totals: 2013: Military ACC AFTC AFDW AFGSC AFR AFSOC AFR AFSOC AFR AFSOC AFR AFSOC AFR AFSOC AMC	1,444 874 291 441 2,318 1,260 379 182 1,688 2,469 847 26 345 12,564 STS on Periodic 1,163 485 263 361 641 1,150 349 131 1,435	497 381 135 139 837 665 116 85 597 1,308 286 8 124 5,178 No F/U 1 Test 377 196 123 100 222 607 104 59 500	34.42 43.59 46.39 31.52 36.11 52.78 30.61 46.70 35.37 52.98 33.77 30.77 35.94 41.21 % No F/U 1 Test 32.42 40.41 46.77 27.70 34.63 52.78 29.80 45.04 34.84
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC AMC ANG PACAF USAFA USAFE Grand Totals: 2013: Military ACC AETC AFDW AFGSC AFR AFSOC AFR AFSOC AFR AFSOC AFR AFSOC AFR AFSOC AFSPC AMC	1,444 874 291 441 2,318 1,260 379 182 1,688 2,469 847 26 345 12,564 STS on Periodic 1,163 485 263 361 641 1,150 349 131 1,435 2,399	497 381 135 139 837 665 116 85 597 1,308 286 8 124 5,178 No F/U 1 Test 377 196 123 100 222 607 104 59	34.42 43.59 46.39 31.52 36.11 52.78 30.61 46.70 35.37 52.98 33.77 30.77 35.94 41.21 % No F/U 1 Test 32.42 40.41 46.77 27.70 34.63 52.78 29.80 45.04 34.84 52.90
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC AMC ANG PACAF USAFA USAFE Grand Totals: 2013: Military ACC AFTC AFDW AFGSC AFR AFSOC AFR AFSOC AFR AFSOC AFR AFSOC AFR AFSOC AMC	1,444 874 291 441 2,318 1,260 379 182 1,688 2,469 847 26 345 12,564 STS on Periodic 1,163 485 263 361 641 1,150 349 131 1,435	497 381 135 139 837 665 116 85 597 1,308 286 8 124 5,178 No F/U 1 Test 377 196 123 100 222 607 104 59 500	34.42 43.59 46.39 31.52 36.11 52.78 30.61 46.70 35.37 52.98 33.77 30.77 35.94 41.21 % No F/U 1 Test 32.42 40.41 46.77 27.70 34.63 52.78 29.80 45.04 34.84
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC AMC ANG PACAF USAFA USAFE Grand Totals: 2013: Military ACC AETC AFDW AFGSC AFR AFSOC AFR AFSOC AFR AFSOC AFR AFSOC AFR AFSOC AFR AFSOC AFSPC AMC ANG PACAF USAFA	1,444 874 291 441 2,318 1,260 379 182 1,688 2,469 847 26 345 12,564 STS on Periodic 1,163 485 263 361 641 1,150 349 131 1,435 2,399 652	497 381 135 139 837 665 116 85 597 1,308 286 8 124 5,178 No F/U 1 Test 377 196 123 100 222 607 104 59 500 1,269 192 5	34.42 43.59 46.39 31.52 36.11 52.78 30.61 46.70 35.37 52.98 33.77 30.77 35.94 41.21 % No F/U 1 Test 32.42 40.41 46.77 27.70 34.63 52.78 29.80 45.04 34.84 52.90 29.45 31.25
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC AMC ANG PACAF USAFA USAFE Grand Totals: 2013: Military ACC AETC AFDW AFGSC AFR AFSOC AFR AFSOC AFR AFSOC AFR AFSOC AFR AFSOC AFR AFSOC AMC ANG PACAF	1,444 874 291 441 2,318 1,260 379 182 1,688 2,469 847 26 345 12,564 STS on Periodic 1,163 485 263 361 641 1,150 349 131 1,435 2,399 652	497 381 135 139 837 665 116 85 597 1,308 286 8 124 5,178 No F/U 1 Test 377 196 123 100 222 607 104 59 500 1,269 192	34.42 43.59 46.39 31.52 36.11 52.78 30.61 46.70 35.37 52.98 33.77 30.77 35.94 41.21 % No F/U 1 Test 32.42 40.41 46.77 27.70 34.63 52.78 29.80 45.04 34.84 52.90 29.45

2013: Civilian	STS on Periodic	No F/U 1 Test	% No F/U 1 Test	
ACC	280	127	45.36	
AETC	388	187	48.20	
AFDW	28	12	42.86	
AFGSC	80	39	48.75	
AFMC	1,676 615		36.69	
AFR	109	57	52.29	
AFSOC	30	12	40.00	
AFSPC	51	27	52.94	
AMC	253	100	39.53	
ANG	69	42	60.87	
PACAF	173	90	52.02	
USAFA	10	3	30.00	
USAFE	19	13	68.42	
Grand Totals:	3,166	1,324	41.82	
2014: Military and Civilian	STS on Periodic	No F/U 1 Test	% No F/U 1 Test	
ACC	2,048	571	27.88	
AETC	771	358	46.43	
AFDW	660	420	63.64	
AFGSC	516	169	32.75	
AFMC	2,787	984	35.31	
AFR	1,342	738	54.99	
AFSOC	422	179	42.42	
AFSPC	220	98	44.55	
AMC	1,475	594	40.27	
ANG	3,030	1,722	56.83	
PACAF	885	342	38.64	
USAFA	22	8	36.36	
USAFE	393	136	34.61	
Grand Totals:	14,571	6,319	43.37	
2014: Military	STS on Periodic	No F/U 1 Test	% No F/U 1 Test	
2014. Willitary	313 OII FEITOUIC	NO F/O I Test	% NO F/O I Test	
ACC	1,673	435	26.00	
ACC AETC	1,673 425	435 173	26.00 40.71	
ACC AETC AFDW	1,673 425 644	435 173 415	26.00 40.71 64.44	
ACC AETC AFDW AFGSC	1,673 425 644 414	435 173 415 136	26.00 40.71 64.44 32.85	
ACC AETC AFDW AFGSC AFMC	1,673 425 644 414 939	435 173 415 136 330	26.00 40.71 64.44 32.85 35.14	
ACC AETC AFDW AFGSC AFMC AFR	1,673 425 644 414 939 1,248	435 173 415 136 330 682	26.00 40.71 64.44 32.85 35.14 54.65	
ACC AETC AFDW AFGSC AFMC AFR AFSOC	1,673 425 644 414 939 1,248	435 173 415 136 330 682 159	26.00 40.71 64.44 32.85 35.14 54.65 40.56	
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC	1,673 425 644 414 939 1,248 392 133	435 173 415 136 330 682 159 63	26.00 40.71 64.44 32.85 35.14 54.65 40.56 47.37	
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC AMC	1,673 425 644 414 939 1,248 392 133 1,276	435 173 415 136 330 682 159 63 494	26.00 40.71 64.44 32.85 35.14 54.65 40.56 47.37 38.71	
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC AMC ANG	1,673 425 644 414 939 1,248 392 133 1,276 2,974	435 173 415 136 330 682 159 63 494 1,688	26.00 40.71 64.44 32.85 35.14 54.65 40.56 47.37 38.71 56.76	
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC AMC ANG PACAF	1,673 425 644 414 939 1,248 392 133 1,276 2,974 710	435 173 415 136 330 682 159 63 494 1,688 261	26.00 40.71 64.44 32.85 35.14 54.65 40.56 47.37 38.71 56.76 36.76	
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC AMC ANG PACAF USAFA	1,673 425 644 414 939 1,248 392 133 1,276 2,974 710 8	435 173 415 136 330 682 159 63 494 1,688 261	26.00 40.71 64.44 32.85 35.14 54.65 40.56 47.37 38.71 56.76 36.76 37.50	
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC AMC ANG PACAF USAFA	1,673 425 644 414 939 1,248 392 133 1,276 2,974 710 8 368	435 173 415 136 330 682 159 63 494 1,688 261 3	26.00 40.71 64.44 32.85 35.14 54.65 40.56 47.37 38.71 56.76 36.76 37.50 33.97	
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC AMC ANG PACAF USAFA USAFE Grand Totals:	1,673 425 644 414 939 1,248 392 133 1,276 2,974 710 8 368 11,204	435 173 415 136 330 682 159 63 494 1,688 261 3 125 4,964	26.00 40.71 64.44 32.85 35.14 54.65 40.56 47.37 38.71 56.76 36.76 37.50 33.97 44.31	
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC AMC ANG PACAF USAFA USAFE Grand Totals: 2014: Civilian	1,673 425 644 414 939 1,248 392 133 1,276 2,974 710 8 368 11,204 STS on Periodic	435 173 415 136 330 682 159 63 494 1,688 261 3 125 4,964 No F/U 1 Test	26.00 40.71 64.44 32.85 35.14 54.65 40.56 47.37 38.71 56.76 36.76 37.50 33.97 44.31 % No F/U 1 Test	
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC AMC ANG PACAF USAFA USAFE Grand Totals: 2014: Civilian ACC	1,673 425 644 414 939 1,248 392 133 1,276 2,974 710 8 368 11,204 STS on Periodic	435 173 415 136 330 682 159 63 494 1,688 261 3 125 4,964 No F/U 1 Test	26.00 40.71 64.44 32.85 35.14 54.65 40.56 47.37 38.71 56.76 36.76 37.50 33.97 44.31 % No F/U 1 Test 36.63	
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC AMC ANG PACAF USAFA USAFE Grand Totals: 2014: Civilian ACC AETC	1,673 425 644 414 939 1,248 392 133 1,276 2,974 710 8 368 11,204 STS on Periodic 374 346	435 173 415 136 330 682 159 63 494 1,688 261 3 125 4,964 No F/U 1 Test 137	26.00 40.71 64.44 32.85 35.14 54.65 40.56 47.37 38.71 56.76 36.76 37.50 33.97 44.31 % No F/U 1 Test 36.63 53.47	
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC AMC ANG PACAF USAFA USAFE Grand Totals: 2014: Civilian ACC AFDW	1,673 425 644 414 939 1,248 392 133 1,276 2,974 710 8 368 11,204 STS on Periodic 374 346 16	435 173 415 136 330 682 159 63 494 1,688 261 3 125 4,964 No F/U 1 Test 137	26.00 40.71 64.44 32.85 35.14 54.65 40.56 47.37 38.71 56.76 36.76 37.50 33.97 44.31 % No F/U 1 Test 36.63 53.47 31.25	
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC AMC ANG PACAF USAFA USAFE Grand Totals: 2014: Civilian ACC AFDW AFGSC	1,673 425 644 414 939 1,248 392 133 1,276 2,974 710 8 368 11,204 STS on Periodic 374 346 16 102	435 173 415 136 330 682 159 63 494 1,688 261 3 125 4,964 No F/U 1 Test 137 185 5	26.00 40.71 64.44 32.85 35.14 54.65 40.56 47.37 38.71 56.76 36.76 37.50 33.97 44.31 % No F/U 1 Test 36.63 53.47 31.25 33.33	
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC AMC ANG PACAF USAFA USAFE Grand Totals: 2014: Civilian ACC AFDW AFGSC AFMC AFMC AFDW AFGSC AFMC	1,673 425 644 414 939 1,248 392 133 1,276 2,974 710 8 368 11,204 STS on Periodic 374 346 16 102 1,848	435 173 415 136 330 682 159 63 494 1,688 261 3 125 4,964 No F/U 1 Test 137 185 5 34 658	26.00 40.71 64.44 32.85 35.14 54.65 40.56 47.37 38.71 56.76 36.76 37.50 33.97 44.31 % No F/U 1 Test 36.63 53.47 31.25 33.33 35.61	
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC AMC ANG PACAF USAFA USAFE Grand Totals: 2014: Civilian ACC AFDW AFGSC AFMC AFR	1,673 425 644 414 939 1,248 392 133 1,276 2,974 710 8 368 11,204 STS on Periodic 374 346 16 102 1,848 94	435 173 415 136 330 682 159 63 494 1,688 261 3 125 4,964 No F/U 1 Test 137 185 5 34 658 57	26.00 40.71 64.44 32.85 35.14 54.65 40.56 47.37 38.71 56.76 36.76 37.50 33.97 44.31 % No F/U 1 Test 36.63 53.47 31.25 33.33 35.61 60.64	
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC AMC ANG PACAF USAFA USAFE Grand Totals: 2014: Civilian ACC AFTC AFDW AFGSC AFMC AFR AFSOC	1,673 425 644 414 939 1,248 392 133 1,276 2,974 710 8 368 11,204 STS on Periodic 374 346 16 102 1,848 94 30	435 173 415 136 330 682 159 63 494 1,688 261 3 125 4,964 No F/U 1 Test 137 185 5 34 658 57	26.00 40.71 64.44 32.85 35.14 54.65 40.56 47.37 38.71 56.76 36.76 37.50 33.97 44.31 % No F/U 1 Test 36.63 53.47 31.25 33.33 35.61 60.64 66.67	
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC AMC ANG PACAF USAFA USAFE Grand Totals: 2014: Civilian ACC AFTC AFDW AFGSC AFMC AFR AFSOC AFR AFSOC AFR AFSOC AFSPC	1,673 425 644 414 939 1,248 392 133 1,276 2,974 710 8 368 11,204 STS on Periodic 374 346 16 102 1,848 94 30 87	435 173 415 136 330 682 159 63 494 1,688 261 3 125 4,964 No F/U 1 Test 137 185 5 34 658 57 20 34	26.00 40.71 64.44 32.85 35.14 54.65 40.56 47.37 38.71 56.76 36.76 37.50 33.97 44.31 % No F/U 1 Test 36.63 53.47 31.25 33.33 35.61 60.64 66.67 39.08	
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC AMC ANG PACAF USAFA USAFE Grand Totals: 2014: Civilian ACC AETC AFDW AFGSC AFR AFSOC AFR AFSOC AFR AFSOC AFR AFSOC AFR AFSOC AMC	1,673 425 644 414 939 1,248 392 133 1,276 2,974 710 8 368 11,204 STS on Periodic 374 346 16 102 1,848 94 30 87	435 173 415 136 330 682 159 63 494 1,688 261 3 125 4,964 No F/U 1 Test 137 185 5 34 658 57 20 34 101	26.00 40.71 64.44 32.85 35.14 54.65 40.56 47.37 38.71 56.76 36.76 37.50 33.97 44.31 % No F/U 1 Test 36.63 53.47 31.25 33.33 35.61 60.64 66.67 39.08 50.75	
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC AMC ANG PACAF USAFA USAFE Grand Totals: 2014: Civilian ACC AETC AFDW AFGSC AFR AFSOC AFR AFSOC AFR AFSOC AFR AFSOC AFR AFSOC AFSPC AMC	1,673 425 644 414 939 1,248 392 133 1,276 2,974 710 8 368 11,204 STS on Periodic 374 346 16 102 1,848 94 30 87 199 50	435 173 415 136 330 682 159 63 494 1,688 261 3 125 4,964 No F/U 1 Test 137 185 5 34 658 57 20 34 101 30	26.00 40.71 64.44 32.85 35.14 54.65 40.56 47.37 38.71 56.76 36.76 37.50 33.97 44.31 % No F/U 1 Test 36.63 53.47 31.25 33.33 35.61 60.64 66.67 39.08 50.75 60.00	
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC AMC ANG PACAF USAFA USAFE Grand Totals: 2014: Civilian ACC AFTC AFDW AFGSC AFRC AFRC AFRC AFRC AFRC AFRC AFSOC AFRC AFRC AFSOC AFSPC AMC ANG PACAF	1,673 425 644 414 939 1,248 392 133 1,276 2,974 710 8 368 11,204 STS on Periodic 374 346 16 102 1,848 94 30 87 199 50 153	435 173 415 136 330 682 159 63 494 1,688 261 3 125 4,964 No F/U 1 Test 137 185 5 34 658 57 20 34 101 30 76	26.00 40.71 64.44 32.85 35.14 54.65 40.56 47.37 38.71 56.76 36.76 37.50 33.97 44.31 % No F/U 1 Test 36.63 53.47 31.25 33.33 35.61 60.64 66.67 39.08 50.75 60.00 49.67	
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC AMC ANG PACAF USAFA USAFE Grand Totals: 2014: Civilian ACC AETC AFDW AFGSC AFR AFSOC AFR AFSOC AFR AFSOC AFR AFSOC AFR AFSOC AFR AFSOC AFSPC AMC ANG PACAF USAFA	1,673 425 644 414 939 1,248 392 133 1,276 2,974 710 8 368 11,204 STS on Periodic 374 346 16 102 1,848 94 30 87 199 50 153	435 173 415 136 330 682 159 63 494 1,688 261 3 125 4,964 No F/U 1 Test 137 185 5 34 658 57 20 34 101 30 76 5	26.00 40.71 64.44 32.85 35.14 54.65 40.56 47.37 38.71 56.76 36.76 37.50 33.97 44.31 % No F/U 1 Test 36.63 53.47 31.25 33.33 35.61 60.64 66.67 39.08 50.75 60.00 49.67 35.71	
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC AMC ANG PACAF USAFA USAFE Grand Totals: 2014: Civilian ACC AETC AFDW AFGSC AFR AFSOC AFR AFSOC AFR AFSOC AFR AFSOC AFR AFSOC AFSPC AMC ANG PACAF	1,673 425 644 414 939 1,248 392 133 1,276 2,974 710 8 368 11,204 STS on Periodic 374 346 16 102 1,848 94 30 87 199 50 153	435 173 415 136 330 682 159 63 494 1,688 261 3 125 4,964 No F/U 1 Test 137 185 5 34 658 57 20 34 101 30 76	26.00 40.71 64.44 32.85 35.14 54.65 40.56 47.37 38.71 56.76 36.76 37.50 33.97 44.31 % No F/U 1 Test 36.63 53.47 31.25 33.33 35.61 60.64 66.67 39.08 50.75 60.00 49.67	

2015: Military and Civilian	STS on Periodic	No F/U 1 Test	% No F/U 1 Test	
ACC	2,071	654	31.58	
AETC	1,202	456	37.94	
AFDW	274	156	56.93	
AFGSC	459	145	31.59	
AFMC	3,177	1,101	34.66	
AFR	1,351	662	49.00	
AFSOC	576	227	39.41	
AFSPC	298	112	37.58	
AMC	1,567	607	38.74	
ANG	2,595	1,395	53.76	
PACAF	900	347	38.56	
USAFA	38	12	31.58	
USAFE	507	190	37.48	
Grand Totals:	15,015	6,064	40.39	
2015: Military	STS on Periodic	No F/U 1 Test	% No F/U 1 Test	
ACC	1,734	514	29.64	
AETC	607	245	40.36	
AFDW	257	145	56.42	
AFGSC	361	109	30.19	
AFMC	879	333	37.88	
AFR	1,252	609	48.64	
AFSOC	543	211	38.86	
AFSPC	205	70	34.15	
AMC	1,337	491	36.72	
ANG	2,544	1,362	53.54	
PACAF	740	261	35.27	
USAFA	15	3	20.00	
USAFE	467	173	37.04	
Grand Totals:	10,941 4,526		41.37	
	CTC - Desired:		0/ 11- 5/114 71	
2015: Civilian	STS on Periodic	No F/U 1 Test	% No F/U 1 Test	
2015: Civilian ACC	335	No F/U 1 Test 140	41.79	
2015: Civilian ACC AETC	335 594	No F/U 1 Test 140 211	41.79 35.52	
ACC AETC AFDW	335 594 17	140 211 11	41.79 35.52 64.71	
2015: Civilian ACC AETC	335 594 17 98	No F/U 1 Test 140 211	41.79 35.52	
ACC AETC AFDW AFGSC	335 594 17	140 211 11 35 769	41.79 35.52 64.71 35.71 33.58	
ACC AETC AFDW AFGSC AFMC	335 594 17 98 2,290	140 211 11 35	41.79 35.52 64.71 35.71	
ACC AETC AFDW AFGSC AFMC AFR	335 594 17 98 2,290 99	140 211 11 35 769 56	41.79 35.52 64.71 35.71 33.58 56.57	
ACC AETC AFDW AFGSC AFMC AFR AFSOC	335 594 17 98 2,290 99 33	No F/U 1 Test  140  211  11  35  769  56  16	41.79 35.52 64.71 35.71 33.58 56.57 48.48	
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC	335 594 17 98 2,290 99 33 93	No F/U 1 Test  140 211 11 35 769 56 16 42	41.79 35.52 64.71 35.71 33.58 56.57 48.48 45.16	
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC AMC	335 594 17 98 2,290 99 33 93 230	No F/U 1 Test  140 211 11 35 769 56 16 42 119	41.79 35.52 64.71 35.71 33.58 56.57 48.48 45.16 51.74	
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC AMC ANG	335 594 17 98 2,290 99 33 93 230 49	No F/U 1 Test  140 211 11 35 769 56 16 42 119 32	41.79 35.52 64.71 35.71 33.58 56.57 48.48 45.16 51.74 65.31	
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC AMC ANG PACAF	335 594 17 98 2,290 99 33 93 230 49 132	No F/U 1 Test  140 211 11 35 769 56 16 42 119 32 78	41.79 35.52 64.71 35.71 33.58 56.57 48.48 45.16 51.74 65.31 59.09	
2015: Civilian  ACC  AETC  AFDW  AFGSC  AFMC  AFR  AFSOC  AFSPC  AMC  ANG  PACAF  USAFA  USAFE  Grand Totals:	335 594 17 98 2,290 99 33 93 230 49 132 23	No F/U 1 Test  140 211 11 35 769 56 16 42 119 32 78	41.79 35.52 64.71 35.71 33.58 56.57 48.48 45.16 51.74 65.31 59.09 39.13	
2015: Civilian  ACC  AETC  AFDW  AFGSC  AFMC  AFR  AFSOC  AFSPC  AMC  ANG  PACAF  USAFA  USAFE	335 594 17 98 2,290 99 33 93 230 49 132 23 27	No F/U 1 Test  140 211 11 35 769 56 16 42 119 32 78 9 17	41.79 35.52 64.71 35.71 33.58 56.57 48.48 45.16 51.74 65.31 59.09 39.13 62.96	
2015: Civilian  ACC  AETC  AFDW  AFGSC  AFMC  AFR  AFSOC  AFSPC  AMC  ANG  PACAF  USAFA  USAFE  Grand Totals:  2016: Military and Civilian  ACC	335 594 17 98 2,290 99 33 93 230 49 132 23 27 4,020 STS on Periodic 1,905	No F/U 1 Test  140  211  11  35  769  56  16  42  119  32  78  9  17  1,535  No F/U 1 Test  378	41.79 35.52 64.71 35.71 33.58 56.57 48.48 45.16 51.74 65.31 59.09 39.13 62.96 38.18 % No F/U 1 Test 19.84	
2015: Civilian  ACC  AETC  AFDW  AFGSC  AFMC  AFR  AFSOC  AFSPC  AMC  ANG  PACAF  USAFA  USAFE  Grand Totals:  2016: Military and Civilian  ACC  AETC	335 594 17 98 2,290 99 33 93 230 49 132 23 27 4,020 STS on Periodic 1,905 1,013	No F/U 1 Test  140  211  11  35  769  56  16  42  119  32  78  9  17  1,535  No F/U 1 Test  378  296	41.79 35.52 64.71 35.71 33.58 56.57 48.48 45.16 51.74 65.31 59.09 39.13 62.96 38.18 % No F/U 1 Test 19.84 29.22	
2015: Civilian  ACC  AETC  AFDW  AFGSC  AFMC  AFR  AFSOC  AFSPC  AMC  ANG  PACAF  USAFA  USAFE  Grand Totals:  2016: Military and Civilian  ACC  AFDW	335 594 17 98 2,290 99 33 93 230 49 132 23 27 4,020 STS on Periodic 1,905 1,013	No F/U 1 Test  140  211  11  35  769  56  16  42  119  32  78  9  17  1,535  No F/U 1 Test  378  296  50	41.79 35.52 64.71 35.71 33.58 56.57 48.48 45.16 51.74 65.31 59.09 39.13 62.96 38.18 % No F/U 1 Test 19.84 29.22 36.76	
2015: Civilian  ACC  AETC  AFDW  AFGSC  AFMC  AFR  AFSOC  AFSPC  AMC  ANG  PACAF  USAFA  USAFE  Grand Totals:  2016: Military and Civilian  ACC  AFDW  AFGSC	335 594 17 98 2,290 99 33 93 230 49 132 23 27 4,020 STS on Periodic 1,905 1,013 136 497	No F/U 1 Test  140  211  11  35  769  56  16  42  119  32  78  9  17  1,535  No F/U 1 Test  378  296  50  114	41.79 35.52 64.71 35.71 33.58 56.57 48.48 45.16 51.74 65.31 59.09 39.13 62.96 38.18 % No F/U 1 Test 19.84 29.22 36.76 22.94	
2015: Civilian  ACC  AETC  AFDW  AFGSC  AFMC  AFR  AFSOC  AFSPC  AMC  ANG  PACAF  USAFA  USAFE  Grand Totals:  2016: Military and Civilian  ACC  AFDW  AFGSC  AFMC  AFMC  AFDW  AFGSC  AFMC	335 594 17 98 2,290 99 33 93 230 49 132 23 27 4,020 STS on Periodic 1,905 1,013 136 497 2,940	No F/U 1 Test  140  211  11  35  769  56  16  42  119  32  78  9  17  1,535  No F/U 1 Test  378  296  50  114  738	41.79 35.52 64.71 35.71 33.58 56.57 48.48 45.16 51.74 65.31 59.09 39.13 62.96 38.18 % No F/U 1 Test 19.84 29.22 36.76 22.94 25.10	
2015: Civilian  ACC  AETC  AFDW  AFGSC  AFMC  AFR  AFSOC  AFSPC  AMC  ANG  PACAF  USAFA  USAFE  Grand Totals:  2016: Military and Civilian  ACC  AFDW  AFGSC  AFMC  AFMC  AFMC  AFMC  AFMC  AFTC  AFDW  AFGSC  AFMC  AFR	335 594 17 98 2,290 99 33 93 230 49 132 23 27 4,020 STS on Periodic 1,905 1,013 136 497 2,940 967	No F/U 1 Test  140  211  11  35  769  56  16  42  119  32  78  9  17  1,535  No F/U 1 Test  378  296  50  114  738  472	41.79 35.52 64.71 35.71 33.58 56.57 48.48 45.16 51.74 65.31 59.09 39.13 62.96 38.18 % No F/U 1 Test 19.84 29.22 36.76 22.94 25.10 48.81	
2015: Civilian  ACC  AETC  AFDW  AFGSC  AFMC  AFR  AFSOC  AFSPC  AMC  ANG  PACAF  USAFA  USAFE  Grand Totals:  2016: Military and Civilian  ACC  AETC  AFDW  AFGSC  AFMC  AFR  AFSOC	335 594 17 98 2,290 99 33 93 230 49 132 23 27 4,020 STS on Periodic 1,905 1,013 136 497 2,940 967 478	No F/U 1 Test  140  211  11  35  769  56  16  42  119  32  78  9  17  1,535  No F/U 1 Test  378  296  50  114  738  472  145	41.79 35.52 64.71 35.71 33.58 56.57 48.48 45.16 51.74 65.31 59.09 39.13 62.96 38.18 % No F/U 1 Test 19.84 29.22 36.76 22.94 25.10 48.81 30.33	
2015: Civilian  ACC  AETC  AFDW  AFGSC  AFMC  AFR  AFSOC  AFSPC  AMC  ANG  PACAF  USAFA  USAFE  Grand Totals:  2016: Military and Civilian  ACC  AFDW  AFGSC  AFMC  AFMC  AFMC  AFDW  AFGSC  AFMC  AFR  AFSOC  AFSPC	335 594 17 98 2,290 99 33 93 230 49 132 23 27 4,020 STS on Periodic 1,905 1,013 136 497 2,940 967 478 222	No F/U 1 Test  140  211  11  35  769  56  16  42  119  32  78  9  17  1,535  No F/U 1 Test  378  296  50  114  738  472  145  74	41.79 35.52 64.71 35.71 33.58 56.57 48.48 45.16 51.74 65.31 59.09 39.13 62.96 38.18 % No F/U 1 Test 19.84 29.22 36.76 22.94 25.10 48.81 30.33 33.33	
2015: Civilian  ACC  AETC  AFDW  AFGSC  AFMC  AFR  AFSOC  AFSPC  AMC  ANG  PACAF  USAFA  USAFE  Grand Totals:  2016: Military and Civilian  ACC  AETC  AFDW  AFGSC  AFMC  AFR  AFSOC  AFR  AFSOC  AFR  AFSOC  AFSPC  AMC	335 594 17 98 2,290 99 33 93 230 49 132 23 27 4,020 STS on Periodic 1,905 1,013 136 497 2,940 967 478 222 1,414	No F/U 1 Test  140 211 11 35 769 56 16 42 119 32 78 9 17 1,535 No F/U 1 Test 378 296 50 114 738 472 145 74 315	41.79 35.52 64.71 35.71 33.58 56.57 48.48 45.16 51.74 65.31 59.09 39.13 62.96 38.18 % No F/U 1 Test 19.84 29.22 36.76 22.94 25.10 48.81 30.33 33.33 22.28	
2015: Civilian  ACC  AETC  AFDW  AFGSC  AFMC  AFR  AFSOC  AFSPC  AMC  ANG  PACAF  USAFA  USAFE  Grand Totals:  2016: Military and Civilian  ACC  AETC  AFDW  AFGSC  AFMC  AFR  AFSOC  AFR  AFSOC  AFR  AFSOC  AFR  AFSOC  AFSPC  AMC	335 594 17 98 2,290 99 33 93 230 49 132 23 27 4,020 STS on Periodic 1,905 1,013 136 497 2,940 967 478 222 1,414 2,660	No F/U 1 Test  140 211 11 35 769 56 16 42 119 32 78 9 17 1,535 No F/U 1 Test 378 296 50 114 738 472 145 74 315	41.79 35.52 64.71 35.71 33.58 56.57 48.48 45.16 51.74 65.31 59.09 39.13 62.96 38.18 % No F/U 1 Test 19.84 29.22 36.76 22.94 25.10 48.81 30.33 33.33 22.28 52.89	
2015: Civilian  ACC  AETC  AFDW  AFGSC  AFMC  AFR  AFSOC  AFSPC  AMC  ANG  PACAF  USAFA  USAFE  Grand Totals:  2016: Military and Civilian  ACC  AETC  AFDW  AFGSC  AFMC  AFR  AFSOC  AFR  AFSOC  AFR  AFSOC  AFR  AFSOC  AFSPC  AMC  ANG  PACAF	335 594 17 98 2,290 99 33 93 230 49 132 23 27 4,020 STS on Periodic 1,905 1,013 136 497 2,940 967 478 222 1,414 2,660 812	No F/U 1 Test  140 211 11 35 769 56 16 42 119 32 78 9 17 1,535 No F/U 1 Test 378 296 50 114 738 472 145 74 315 1,407 252	41.79 35.52 64.71 35.71 33.58 56.57 48.48 45.16 51.74 65.31 59.09 39.13 62.96 38.18 % No F/U 1 Test 19.84 29.22 36.76 22.94 25.10 48.81 30.33 33.33 22.28 52.89 31.03	
2015: Civilian  ACC  AETC  AFDW  AFGSC  AFMC  AFR  AFSOC  AFSPC  AMC  ANG  PACAF  USAFA  USAFE  Grand Totals:  2016: Military and Civilian  ACC  AETC  AFDW  AFGSC  AFR  AFSOC  AFR  AFSOC  AFR  AFSOC  AFR  AFSOC  AFR  AFSOC  AFR  AFSOC  AFSPC  AMC  ANG  PACAF  USAFA  USAFA  USAFA  USAFA  USAFA  USAFA  USAFA  ACC  AETC  AFDW  AFGSC  AFMC  AFR  AFSOC  AFSPC  AMC  ANG  PACAF  USAFA	335 594 17 98 2,290 99 33 93 230 49 132 23 27 4,020 STS on Periodic 1,905 1,013 136 497 2,940 967 478 222 1,414 2,660 812 55	No F/U 1 Test  140 211 11 35 769 56 16 42 119 32 78 9 17 1,535 No F/U 1 Test 378 296 50 114 738 472 145 74 315 1,407 252	41.79 35.52 64.71 35.71 33.58 56.57 48.48 45.16 51.74 65.31 59.09 39.13 62.96 38.18 % No F/U 1 Test 19.84 29.22 36.76 22.94 25.10 48.81 30.33 33.33 22.28 52.89 31.03	
2015: Civilian  ACC  AETC  AFDW  AFGSC  AFMC  AFR  AFSOC  AFSPC  AMC  ANG  PACAF  USAFA  USAFE  Grand Totals:  2016: Military and Civilian  ACC  AETC  AFDW  AFGSC  AFMC  AFR  AFSOC  AFR  AFSOC  AFR  AFSOC  AFR  AFSOC  AFSPC  AMC  ANG  PACAF	335 594 17 98 2,290 99 33 93 230 49 132 23 27 4,020 STS on Periodic 1,905 1,013 136 497 2,940 967 478 222 1,414 2,660 812	No F/U 1 Test  140 211 11 35 769 56 16 42 119 32 78 9 17 1,535 No F/U 1 Test 378 296 50 114 738 472 145 74 315 1,407 252	41.79 35.52 64.71 35.71 33.58 56.57 48.48 45.16 51.74 65.31 59.09 39.13 62.96 38.18 % No F/U 1 Test 19.84 29.22 36.76 22.94 25.10 48.81 30.33 33.33 22.28 52.89 31.03	

2016: Military	STS on Periodic	No F/U 1 Test	% No F/U 1 Test	
ACC	1,610	302	18.76	
AETC	452	131	28.98	
AFDW	123	45	36.59	
AFGSC	390	85	21.79	
AFMC	705	178	25.25	
AFR	893 437		48.94	
AFSOC	448	128	28.57	
AFSPC	154	50	32.47	
AMC	1,224	245	20.02	
ANG	2,594	1,374	52.97	
PACAF	670	199	29.70	
USAFA	28	4	14.29	
USAFE	409	93	22.74	
Grand Totals:	9,700	3,271	33.72	
2016: Civilian	STS on Periodic	No F/U 1 Test	% No F/U 1 Test	
2016: Civilian ACC	STS on Periodic 293	No F/U 1 Test	% No F/U 1 Test 27.30	
		-	•	
ACC	293	80	27.30	
ACC AETC	293 561	80 167	27.30 29.77	
ACC AETC AFDW	293 561 13	80 167 5	27.30 29.77 38.46	
ACC AETC AFDW AFGSC	293 561 13 107	80 167 5 29	27.30 29.77 38.46 27.10	
ACC AETC AFDW AFGSC AFMC	293 561 13 107 2,234	80 167 5 29 562	27.30 29.77 38.46 27.10 25.16	
ACC AETC AFDW AFGSC AFMC AFR	293 561 13 107 2,234 74	80 167 5 29 562 36	27.30 29.77 38.46 27.10 25.16 48.65	
ACC AETC AFDW AFGSC AFMC AFR AFSOC	293 561 13 107 2,234 74 30	80 167 5 29 562 36 17	27.30 29.77 38.46 27.10 25.16 48.65 56.67	
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC	293 561 13 107 2,234 74 30 67	80 167 5 29 562 36 17	27.30 29.77 38.46 27.10 25.16 48.65 56.67 35.82	
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC AMC	293 561 13 107 2,234 74 30 67 186	80 167 5 29 562 36 17 24 68	27.30 29.77 38.46 27.10 25.16 48.65 56.67 35.82 36.56	
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC AMC ANG	293 561 13 107 2,234 74 30 67 186 65	80 167 5 29 562 36 17 24 68	27.30 29.77 38.46 27.10 25.16 48.65 56.67 35.82 36.56 49.23	
ACC AETC AFDW AFGSC AFMC AFR AFSOC AFSPC AMC ANG PACAF	293 561 13 107 2,234 74 30 67 186 65	80 167 5 29 562 36 17 24 68 32	27.30 29.77 38.46 27.10 25.16 48.65 56.67 35.82 36.56 49.23 38.26	

Table for Graph 10. Reference Discrepancy Variation with STS Rate

Year	Military STS (%)	Military STS w/o Reference Discrepancy (%)	Military Delta (%)	Civilian STS (%)	Civilian STS w/o Reference Discrepancy (%)	Civilian Delta (%)
2009	8.6	7.2	1.4	18.6	15.6	3.0
2010	8.2	6.9	1.3	18.3	15.5	2.8
2011	7.5	6.3	1.2	15.0	12.5	2.5
2012	7.5	6.4	1.1	14.0	12.7	1.3
2013	6.6	5.5	1.1	14.7	12.1	2.6
2014	7.2	6.2	1.0	14.5	13.3	1.2
2015	7.7	6.7	1.0	18.6	17.4	1.2
2016	7.0	6.0	1.0	17.4	16.7	0.7

## LIST OF ABBREVIATIONS AND ACRONYMS

ACC Air Combat Command

**AETC** Air Education and Training Command

**AFDW** Air Force District of Washington

AFGSC Air Force Global Strike Command

AFI Air Force Instruction

AFMC Air Force Materiel Command

**AFR** Air Force Reserve

**AFSOC** Air Force Special Operations Command

AFSPC Air Force Space Command

AMC Air Mobility Command

ANG Air National Guard

ASIMS Aeromedical Services Information Management System

**BCS** Business Connectivity Service

**DMDC** Defense Manpower Data Center

**DoD** Department of Defense

**DoDI** Department of Defense Instruction

**DOEHRS-HC DR** Defense Occupational and Environmental Health Readiness System-

**Hearing Conservation Data Repository** 

**DOEHRS-IH** Defense Occupational and Environmental Health Readiness System-

Industrial Hygiene

**HCP** Hearing Conservation Program

**HCPM** Hearing Conservation Program Manager

MAJCOM major command

MCR Maintenance Change Request

OSHA Occupational Safety and Health Administration

PACAF Pacific Air Forces

PHRO Epidemiology Consult Service, Operations Support Branch

**PTS** permanent threshold shift

**SCR** Service Change Request

SIR System Incident Report

**STS** significant threshold shift

**TTS** temporary threshold shift

**USAFA** United States Air Force Academy

**USAFE** United States Air Forces in Europe

**USAFSAM** U.S. Air Force School of Aerospace Medicine